

31 March 2005  
Project No. 2893.14.0200

Mr. George Ford  
The Presidio Trust  
1750 Lincoln Avenue  
P.O. Box 29052  
San Francisco, CA 94129-0052

Subject: **Asbestos Worker Exposure Assessment Results**  
**Asbestos Health and Safety Evaluation**  
Presidio of San Francisco, California

Dear Mr. Ford:

Treadwell & Rollo, Inc. is pleased to submit the analytical results of air samples used to assess the potential for asbestos exposure to workers performing revegetation tasks at Baker Beach Disturbed Areas 1 and 2 and Presidio Golf Course within the Presidio of San Francisco, California (Figure 1). This worker exposure assessment was outlined in our proposal dated 5 September 2003 as approved by the Presidio Trust (Trust) on 12 November 2003. The exposure assessment is part of an Asbestos Health and Safety Evaluation that includes soil and air sampling to evaluate potential asbestos exposure related to native serpentine soils at six sites selected by the Trust.

The six sites where revegetation activities are planned are located throughout the Presidio (Figure 1) and include:

- Baker Beach Disturbed Areas 1 and 2,
- Landfill 2,
- Building 633 Firing Range,
- California Highway Patrol Pistol Range (CHP), and
- Presidio Golf Course.

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## BACKGROUND

The soil sampling and analysis to identify the presences of asbestos at the six sites was performed in March 2004 in accordance with Treadwell & Rollo's *Asbestos Field Sampling Plan* dated 3 December 2003 and *Addendum* dated 8 March 2004. The soil sampling results and associated data are presented in Treadwell & Rollo's *Soil Sample Results, Asbestos Health and Safety Evaluation*, dated 21 April 2004, included on CD in Attachment A. Naturally occurring asbestos was identified at five of the six sites tested, but was not detected at CHP (Table 1, Attachment A).

The soil sampling analytical results for these sites indicate that asbestos was detected in samples from all sites except the CHP Pistol Range. The reported asbestos concentrations included:

- Baker Beach Disturbed Area 1 – Asbestos present in all eight samples at concentrations ranging from <1 percent chrysotile to 10 percent. Previous data indicated asbestos in one of two samples at 0.5 percent.
- Baker Beach Disturbed Area 2 – All 17 samples collected reported asbestos present at concentrations ranging between 2 percent and 10 percent. Previous data indicated asbestos in one of three samples at 1 percent.
- Landfill 2 – Only one of seven samples collected contained asbestos (at 3 percent).
- Building 633 Firing Range – Three of five samples collected contained asbestos (all <1 percent).
- Presidio Golf Course – Concentrations of asbestos ranged from <1 percent to 2 percent in five the six samples collected.

The potential for asbestos exposure was evaluated at Fill Site 5 (FS 5) in the Fall of 2003 as documented in Treadwell & Rollo's *Asbestos Exposure Survey Results, Fill Site 5*, dated 15 October 2003. Asbestos was present in FS 5 serpentine soils at a maximum of 1 percent. Exposure survey air sampling results indicated that respiratory protection for workers involved in revegetation activities is not required at FS 5.

Based on the soil sampling results and the previous exposure assessment performed at FS 5, respiratory protection for workers involved in revegetation activities at CHP Pistol Range and Building 633 Firing Range is not required (Attachment A). However, because of the documented presence of asbestos at the Building 633 Firing Range site, the revegetation workers will require Asbestos Awareness Training. The reported asbestos levels at the four other sites (Baker Beach Disturbed Areas 1 and 2, Landfill 2, and the Presidio Golf Course) required further assessment to evaluate whether asbestos in soil within the exposed serpentine outcrops could represent a respiratory health concern for plant restoration workers.

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## **INITIAL EXPOSURE ASSESSMENT**

The initial asbestos exposure assessment scope of work included:

- Performing an exposure assessment for personnel conducting revegetation activities in areas containing asbestos, including air sampling, 8-hour personal air monitoring, 30-minute exposure limit sampling, and perimeter and confirmation air sampling;
- Evaluating air sample results at Baker Beach Disturbed Areas 1 and 2, and Presidio Golf Course; and
- Preparing this report.

Prior to the start of the exposure assessments, it was determined by the Trust and National Park Service (NPS) that the exposure assessment proposed at Landfill 2 would not be conducted at this time, because the Presidio Clarkia, a special status plant specie, was in bloom. Additionally, because the asbestos content in soils at Landfill 2 is within the range present at the other sites, the exposure assessment results at those sites will provide an indication of the conditions at Landfill 2.

On 11, 12, and 13 May 2004 Treadwell & Rollo and RGA Environmental, Inc. (RGA) performed the initial workers exposure assessment to collect samples to evaluate airborne asbestos exposure for personnel conducting revegetation activities in the serpentine outcrop areas at Baker Beach Disturbed Areas 1 and 2 and Presidio Golf Course (Figures 2 and 3). The surface topography of Baker Beach Disturbed Areas 1 and 2 is very steep with an approximate 240 feet of vertical change (Photo 1). The serpentine outcrop at the Presidio Golf Course is relatively flat (Photo 2).

At each site, the areas reporting higher concentrations for asbestos in soil were selected for the exposure assessment (Figures 2 and 3). These areas represent the likely “worst-case” for exposure to asbestos, based on the soil analytical results. The objective of the worker exposure assessment was to collect air samples from the breathing zone during a typical plant restoration eight-hour workday.

Mr. Peter Brastow of the NPS outlined the type of revegetation activities to be conducted, the duration of each activity that occurs in a typical 8-hour workday, and any other engineering controls that may impact the revegetation activities. For example, the plant restoration activities may include an hour or two of mobilization time in a green house area, four hours of planting onsite, and two hours of demobilization activities. The workers may wear gloves, use spades in planting tasks, and apply appreciable water to the soil. Based on the activities outlined by Mr. Brastow, the exposure assessment team reproduced conditions during the exposure sampling to represent the actual worker onsite exposure.

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The exposure assessment team included up to three team members (Treadwell & Rollo and RGA employees certified for respirator use per Occupational Safety and Health Administration [OSHA] requirements), wearing respiratory protection, Tyvek<sup>tm</sup> clothing and personal air monitoring samplers while onsite (Photographs 3 through 4). The primary work the exposure assessment team performed during the assessment was the hand eradication (weeding and debris removal) of non-native plant species. Activities conducted offsite were assumed to have zero asbestos exposure. The personal air monitoring was conducted using portable low volume sampling pumps set with a constant flow rate of 2.0 liters per minute (lpm) over the time period that a typical worker would be onsite. The personal air samples were collected in the breathing zone of the workers and were evaluated to estimate an 8-hour time-weighted average (TWA). The personal sample results are summarized in Table 1.

For Baker Beach Disturbed Areas 1 and 2, the exposure assessment was divided into morning and afternoon sampling shifts to incorporate the entire study area (Figure 2). Therefore, the perimeter samples were moved accordingly to gather appropriate upwind and downwind exposure. Two perimeter air samples were collected as background samples on the upwind and downwind perimeter of the revegetation area for each of the sites (Figures 2 and 3). The perimeter sample results are included in Table 1.

Excursion air samples were taken at the discretion of the field leader in order to represent worst-case scenario conditions of a volunteer during the eight-hour workday. The excursion samples were collected for 30-minute intervals when the most "at-risk" planting occurred i.e., when prevailing winds occur at the site of revegetation. Two excursion samples were collected from each site during the exposure assessments. The excursion sample results are included in Table 1.

All air samples were collected on phase contrast microscopy (PCM) air sampling cassettes (25 mm diameter) with a 0.8 micron filter and analyzed at Schneider Laboratories, Inc, a California certified laboratory located in Richmond, Virginia. The samples were analyzed using PCM National Institute for Occupational Safety and Health (NIOSH) 7400 Method.

The personal and perimeter air samples were compared to the permissible exposure limit (PEL) established by OSHA. The PEL is 0.1 fibers per cubic centimeter (f/cc) over the TWA. The excursion air samples were compared to the short-term exposure limit (STEL) of 1.0 f/cc. The results of the sampling indicate that the exposure limits are well below the PEL and STEL, respectively for all tested samples. Results of the personal monitoring and perimeter samples are summarized in Table 1. A copy of the air sample analytical laboratory reports is presented in Attachment B.

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## CONCLUSIONS

The results from the air sample analyses performed at Baker Beach Disturbed Areas 1 and 2, and the Presidio Golf Course for asbestos exposure indicate that although asbestos is present in serpentine outcrops at the sites, air monitoring sample results indicate airborne asbestos is well below the PEL and STEL during plant restoration worker activities.

As noted on Table 1, a perimeter sample cassette at Baker Beach Disturbed Area 2 was clogged with soil particles, thus no fiber count was possible.

Based on these air sample results, respiratory protection for workers involved in revegetation activities at Baker Beach Disturbed Areas 1 and 2, and Presidio Golf Course are not required. However, because of the documented presence of asbestos at the sites the workers will require Asbestos Awareness Training.

Confirmation air sampling will be performed at Baker Beach Disturbed Area 2 (the site having the highest asbestos content in soil) at the start of revegetation activities to verify that similar air sampling results are obtained during the conduct of actual planting activities.

During revegetation activities at these sites, health and safety will be achieved by workers complying with one of the following plans or procedures.

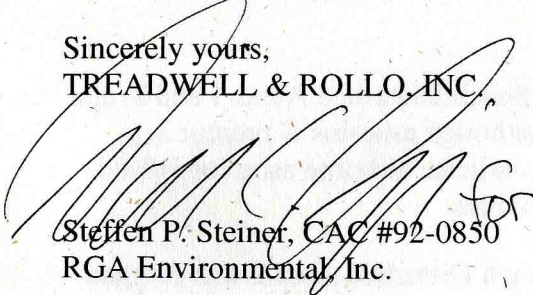
- Treadwell & Rollo has prepared a project-specific Health and Safety Plan (HSP) covering the Planting in Naturally Occurring Asbestos in Soil field activities. Site-specific HSP addendums will be prepared for each of these sites. The HSP addendums will include the potential health and safety risks associated with the field activities including the results of asbestos sampling, procedures for situations where unhealthy and/or unsafe conditions could occur, a description of the route to the nearest hospital and additional related items. The HSP must be read and signed by all Trust field personnel prior to the start of field activities.
- The NPS has also developed health and safety procedures for performing plant restoration activities in serpentinite areas of the Presidio which NPS workers will follow.
- Additional parties, such as remediation contractors, may develop and adhere to other HSPs equivalent to the Trust HSP and addendums for work in these areas, as appropriate.




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The Presidio Trust  
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If you have any questions after reviewing this letter report, please contact us.

Sincerely yours,  
TREADWELL & ROLLO, INC.



Steffen P. Steiner, CAC #92-0850  
RGA Environmental, Inc.



Michael A. Chamberlain, P.G.  
Senior Project Geologist

**Enclosures:**

Table 1	Asbestos Results for Air Samples
Figure 1	Site location Map
Figure 2	Baker Beach Disturbed Areas 1 and 2 Asbestos Sampling Locations
Figure 3	Presidio Golf Course Asbestos Sampling Locations
Photograph 1	Baker Beach Disturbed Area 2A
Photograph 2	Serpentine Soils at Presidio Golf Course
Photograph 3	Exposure Assessment at Baker Beach Disturbed Area 2A
Photograph 4	Exposure Assessment at Baker Beach Disturbed Area 2
Attachment A	Soil Sampling Results Letter Report (on CD)
Attachment B	Air Sample Laboratory Reports (on CD)

**Attachment A**  
**Soil Sample Results, Asbestos Health and Safety Evaluation**  
**(Treadwell & Rollo, 21 April 2004)**

# Treadwell & Rollo

21 April 2004  
Project No. 2893.14.0200

Mr. George Ford  
The Presidio Trust  
1750 Lincoln Avenue  
P.O. Box 29052  
San Francisco, CA 94129-0052

Subject: **Soil Sampling Results**  
**Asbestos Health and Safety Evaluation**  
Presidio of San Francisco, California

Dear Mr. Ford:

Treadwell & Rollo, Inc. is pleased to transmit the results of asbestos characterization sampling to evaluate worker health and safety relating to asbestos occurring in native serpentine soil at the Presidio of San Francisco (Figure 1). The six sites where planned revegetation activities are proposed are located throughout the Presidio and include:

- Baker Beach Disturbed Areas 1 and 2 (Figure 2),
- Landfill 2 (Figure 3),
- Building 633 Firing Range (Figure 4),
- California Highway Patrol (CHP) Pistol Range (Figure 5), and
- Presidio Golf Course (Figure 6).

The soil sampling was conducted in general accordance with Treadwell & Rollo's *Asbestos Field Sampling Plan* dated 3 December 2003 and *Addendum* dated 8 March 2004.

The scope of services included:

- Identifying areas of serpentinite soil outcrops, based on field observations at the sites and proposing soil sample locations;
- Collecting a total of 43 shallow soil samples and submitting the samples for asbestos analysis;
- Evaluating the analytical results to identify where no asbestos was found and where asbestos is present at concentrations greater than 1 percent warranting a site-specific worker exposure assessment; and

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Treadwell & Rollo, Inc. Environmental & Geotechnical Consultants  
555 Montgomery Street, Suite 1300, San Francisco, California 94111  
Telephone (415) 955-9040, Facsimile (415) 955-9041



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- Preparing this letter report.

## SOIL SAMPLING

Soil samples were collected to determine whether asbestos was present in serpentinite soil outcrops at the sites. On 9, 10 and 31 March 2004, Treadwell & Rollo collected a total of 43 primary and five duplicate shallow soil samples from locations approved by the Trust and the National Park Service (NPS)(Figures 2 through 6). Sample identification and collection were performed in general accordance with the *Presidio-wide Quality Assurance Project Plan and Sampling and Analysis Plan* (QAPP) (EMI Tetra Tech, 2001).

Site location identifiers used in the sample designation included:

- Baker Beach Disturbed Area 1 – BB1,
- Baker Beach Disturbed Area 2 – BB2,
- Landfill 2 - LF2,
- Building 633 Firing Range - 633,
- CHP Pistol Range - CHP, and
- Presidio Golf Course - PGC.

The sample designations refer to the sampling area, sample type, and the consecutive location number. For example, sample 633SS100 refers to the Building 633 Firing Range Area (633), shallow soil sample (SS), first sample location (100). To reduce the potential of confusion between previous soil samples collected from the BB1 and BB2 Areas and documented in *Draft Interim Data Report, Baker Beach Disturbed Areas 1, 1A, 2, and 2A* (MACTEC, 2003), the consecutive location number was started at the number 200.

The shallow soil samples were collected within the top 6 to 8 inches of soil using a stainless-steel hand shovel. To reduce the potential of cross-contaminating the sample locations, the shovel was washed with soapy water, rinsed with distilled water, and dried with disposable paper towels between each sample location.

Bulk soil samples were collected in labeled 1-gallon Zip-lock<sup>TM</sup> plastic bags. The soil was loosened with the hand shovel, placed in the plastic bag, the bag sealed and labeled. For quality control (QC) purposes, five duplicate soil samples were collected (approximately 10 percent of the total number of samples).

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Following sample collection, soil not taken for analyses was placed back into the hole and lightly tamped to restore the surface. Horizontal coordinates for the sample locations were determined by Trust personnel using a Trimble Global Positioning System (GPS) unit.

A total of 48 soil samples (including duplicate samples) were submitted under chain-of-custody protocol to Micro Analytical Laboratories, Inc, a California-certified laboratory located in Emeryville, California. The samples were analyzed using Polarized Light Microscopy (PLM) methodologies following California Air Resources Board Method 435.

## RESULTS

The soil asbestos analysis results are presented in Table 1 and on Figures 2 through 6. The analytical results indicate that asbestos was detected in samples from all sites except the CHP Pistol Range. The reported asbestos concentrations included:

- Baker Beach Disturbed Area 1 – Asbestos present in all eight samples at concentration ranging from <1 percent chrysotile [%] to 10%. Previous data indicated asbestos in one of two samples at 0.5%,
- Baker Beach Disturbed Area 2 – All 17 samples collected reported asbestos present at concentration ranging between 2% and 10%. Previous data indicated asbestos in one of three samples at 1%,
- Landfill 2 – Only one of seven samples collected contained asbestos (a concentration of 3%),
- Building 633 Firing Range - Low levels of asbestos (<1%), which would not require further action, were detected in three of the five samples collected, and
- Presidio Golf Course – Concentrations of asbestos range from <1% to 2% in five the six samples collected.

The laboratory analytical report for the soil samples is included as Attachment A. Data validation was not performed, as asbestos sampling is a physical property measurement that is not subject to analytical data validation methods.

With one exception, the results from the five pairs of primary and QC duplicate samples are consistent. One pair collected at Baker Beach Disturbed Area 2 reported 2% asbestos in the primary sample (BB2SS209) and 10% asbestos in the QC duplicate sample (DUP031004). The inconsistent results between these primary and duplicate samples are attributed to soil matrix non-homogeneity.

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## CONCLUSIONS AND RECOMMENDATIONS

Natural occurring asbestos has been identified at five of the six sites tested. Based on these results and the previous exposure assessment performed at Fill Site 5, respiratory protection for workers involved in revegetation activities at CHP Pistol Range and Building 633 Firing Range is not required. However, because of the documented presence of asbestos at the Building 633 Firing Range site, the revegetation workers will require Asbestos Awareness Training. The reported asbestos levels at the four other sites (Baker Beach Disturbed Areas 1 and 2, Landfill 2, and the Presidio Golf Course) should be further assessed to evaluate whether asbestos in soil within the exposed serpentine outcrops could represent a health concern for plant restoration workers.

As presented in Treadwell & Rollo's proposal dated 10 November 2003, Treadwell & Rollo and RGA Environmental, Inc. (RGA) will perform an initial worker exposure assessment at each of these four sites. The exposure assessments will evaluate the potential airborne asbestos exposure for personnel conducting revegetation activities in the serpentine outcrop areas. The objective of the worker exposure assessments will be to collect air samples from the breathing zone during a typical plant restoration eight-hour workday. The initial exposure assessments will be performed at sample locations reporting the highest asbestos concentration. These areas represent the likely "worst-case" for exposure to asbestos. The proposed assessment locations and soil sample results are:

- Baker Beach Disturbed Area 1 – sample location BB1SS200 (10% chrysotile),
- Baker Beach Disturbed Area 2 – sample location DUP031004A (10% chrysotile),
- Landfill 2 – sample location LF2SS100 (3% chrysotile), and
- Presidio Golf Course - sample location PGCSS203 (2% chrysotile).

The initial exposure assessment will be performed by collecting personal, excursion, and perimeter air samples at the site. Two sampling personnel (Treadwell & Rollo and RGA employees certified for respirator use per Occupational Safety and Health Administration [OSHA] requirements), wearing respiratory protection and Tyvek<sup>™</sup> clothing while onsite, will simulate typical activities for the plant restoration workers. The objective will be to reproduce conditions representative of revegetation planting activity that occurs in a typical eight-hour workday of actual worker onsite exposure. For example, the plant restoration activities may include an hour or two of mobilization time in a green house area, four hours of planting onsite, and two hours of demobilization activities. Activities conducted offsite are assumed to have zero asbestos exposure.

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The personal air monitoring will be conducted using portable low volume sampling pumps set with a constant flow rate of 2.0 liters per minute (lpm) with a phase contrast microscopy (PCM) air sampling cassettes fitted with a 0.8 micron (25 mm) filter. The pumps will be operating over the time period that a typical worker would be onsite. The personal air samples are collected in the breathing zone of the workers and will be evaluated to estimate an eight-hour time-weighted average (TWA).

Two excursion air samples will be taken at the discretion of the field leader in order to represent worst-case scenario conditions of a volunteer during the eight-hour workday. The excursion samples are collected at a 30-minute interval when the most "at-risk" planting occurred i.e. when prevailing winds occur at the site of revegetation.

Two perimeter air samples will be collected as background samples. These sample collection locations are located in the upwind and downwind direction of the planting area.

All air samples collected will be transported to Micro Analytical Laboratories, Inc. under chain-of-custody protocol. The samples will be analyzed using Phase Contrast Microscopy (PCM) National Institute for Occupational Safety and Health (NIOSH) method 7400.

By simulating the exposure in the "worst-case" asbestos area, appropriate worker protection protocols can be developed. The personal and perimeter air samples will be compared to the permissible exposure limit (PEL) established by OSHA. The PEL is 0.1 fibers per cubic centimeter (f/cc) over the TWA. The excursion air samples will be compared to the short-term exposure limit (STEL) of 1.0 f/cc. The results of the air sampling will indicate the exposure limits relative to the PEL and STEL. The results of the personal monitoring and perimeter sampling will allow for the selection of engineering and/or administrative controls for site-specific use to protect workers safety.

Following completion of the air sampling, the results will be presented in an Exposure Assessment Letter Report that transmits results of the air sampling and summarizes the exposure assessment findings for each site. In order to confirm the initial exposure assessment results, confirmation asbestos air sampling will be performed during the first day of actual planting activities. The confirmation sampling will consist of personal monitoring sampling, excursion sampling, and perimeter sampling. The personal monitoring samplers will be worn by workers performing revegetation activities for an eight-hour period. Sample equipment and analyses will be the same as presented in the initial exposure sample outlined above.

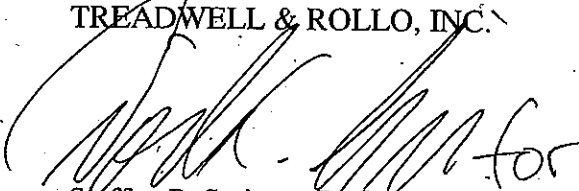
A project-specific Health and Safety Plan (HSP) covering the Planting in Naturally Occurring Asbestos in Soil field activities has been prepared previously for the Trust by Treadwell & Rollo. Based on the results from the worker exposure assessments, site-specific HSP addendums will be

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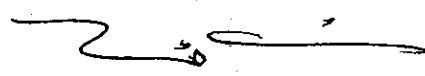
prepared. The HSP addendums will include the potential health and safety risks associated with the field activities including the results of asbestos sampling, procedures for situations where unhealthy and/or unsafe conditions could occur, a description of the route to the nearest hospital and additional related items. The HSP must be read and signed by all field personnel prior to the start of field activities.

If you have any questions after reviewing this letter report, please contact us.

Sincerely yours,  
TREADWELL & ROLLO, INC.



Steffen P. Steiner, CAC #92-0850  
RGA Environmental, Inc.



Michael A. Chamberlain  
Senior Project Geologist

Asbestos Letter Report.doc

## Enclosures

- Table 1 Soil Sample Results for Asbestos
- Figure 1 Site location Map
- Figure 2 Baker Beach Disturbed Areas 1 and 2 Asbestos Sample Locations
- Figure 3 Landfill 2 Asbestos Sample Locations
- Figure 4 Building 633 Firing Range 2 Asbestos Sample Locations
- Figure 5 California Highway Patrol Pistol Range Asbestos Sample Locations
- Figure 6 Presidio Golf Course Asbestos Sample Locations
- Attachment A Soil Sample Laboratory Reports

## TABLES



**Table 1**  
**Soil Sample Results for Asbestos**  
**Asbestos Exposure Assessment at Six Sites**  
**Presidio of San Francisco, California**

Location ID	Sample Date	Lithology	Asbestos <sup>1</sup> , Chrysotile % By Volume
<b>Baker Beach Disturbed Area 1</b>			
BB1SS200	3/9/2004	serpentine	10
BB1SS201	3/9/2004	serpentine	5
BB1SS202	3/9/2004	serpentine	3
BB1SS203	3/9/2004	serpentine	< 1
DUP030904A	3/9/2004	serpentine	< 1
BB1SS204	3/9/2004	serpentine	2
BB1SS205	3/9/2004	serpentine	3
DUP030904B	3/9/2004	serpentine	3
03BB1SB-107	7/30/2003	--	ND
03BB1SB-109	7/30/2003	--	0.5
<b>Baker Beach Disturbed Area 2</b>			
BB2SS200	3/10/2004	serpentine	3
BB2SS201	3/10/2004	serpentine	3
BB2SS202	3/10/2004	serpentine	2
BB2SS203	3/10/2004	serpentine	5
BB2SS204	3/10/2004	serpentine	3
BB2SS205	3/10/2004	serpentine	2
BB2SS206	3/10/2004	serpentine	3
BB2SS207	3/10/2004	serpentine	2
BB2SS208	3/10/2004	serpentine	2
BB2SS209	3/10/2004	serpentine	2
DUP031004A	3/10/2004	serpentine	10
BB2SS210	3/31/2004	serpentine	2
BB2SS211	3/31/2004	serpentine	2
BB2SS212	3/31/2004	serpentine	2
DUP033104A	3/31/2004	serpentine	2
BB2SS213	3/31/2004	serpentine	5
BB2SS214	3/31/2004	serpentine	2
03BB2ASS-100	7/30/2003	--	ND
03BB2ASS-102	7/30/2003	--	ND
03BB2ASS-104	7/30/2003	--	1
<b>Landfill 2</b>			
LF2SS100	3/9/2004	serpentine	3
LF2SS101	3/9/2004	dune sand	ND
LF2SS102	3/9/2004	dune sand	ND
LF2SS103	3/9/2004	dune sand	ND
LF2SS104	3/9/2004	dune sand	ND
LF2SS105	3/9/2004	dune sand	ND
LF2SS106	3/9/2004	soil w/ serpentine	ND

**Table 1**  
**Soil Sample Results for Asbestos**  
**Asbestos Exposure Assessment at Six Sites**  
**Presidio of San Francisco, California**

Location ID	Sample Date	Lithology	Asbestos <sup>1</sup> , Chrysotile % By Volume
<b>Building 633 Firing Range</b>			
633SS100	3/9/2004	silty sandy soil	< 1
633SS101	3/9/2004	silty sandy soil	ND
633SS102	3/9/2004	silty sandy soil	< 1
633SS103	3/9/2004	silty sandy soil	ND
633SS104	3/9/2004	silty sandy soil	< 1
<b>California Highway Patrol Pistol Range</b>			
CHPSS100	3/9/2004	silty sandy soil	ND
CHPSS101	3/9/2004	silty sandy soil	ND
CHPSS102	3/9/2004	silty sandy soil	ND
CHPSS103	3/9/2004	silty sandy soil	ND
CHPSS104	3/9/2004	silty sandy soil	ND
<b>Presidio Golf Course</b>			
PGCSS200	3/10/2004	silty sandy soil	2
PGCSS201	3/10/2004	silty sandy soil	< 1
PGCSS202	3/10/2004	serpentine soil	< 1
PGCSS203	3/10/2004	serpentine soil	2
DUP031004B	3/10/2004	serpentine soil	2
PGCSS204	3/10/2004	silty sandy soil	ND

**Notes**

<sup>1</sup> Bulk asbestos analysis using Polarized Light Microscopy (PLM) following California Air Resources Board Method 435

DUP - Prefix indicates quality control duplicate sample.

*03BB2ASS-102* - *Italicized sample number indicates existing data, Draft Interim Data Report, Baker Beach Disturbed Areas 1, 1A, 2, and 2A (MACTEC, 200*

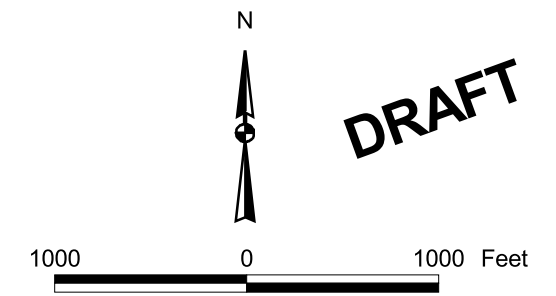
ND - not detected

-- data unknown or unavailable

All samples collected from surface soil at depths between 6 and 8-inches.

## FIGURES





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**LEGEND**

— Area Depicted on Figures



**SITE LOCATION MAP**

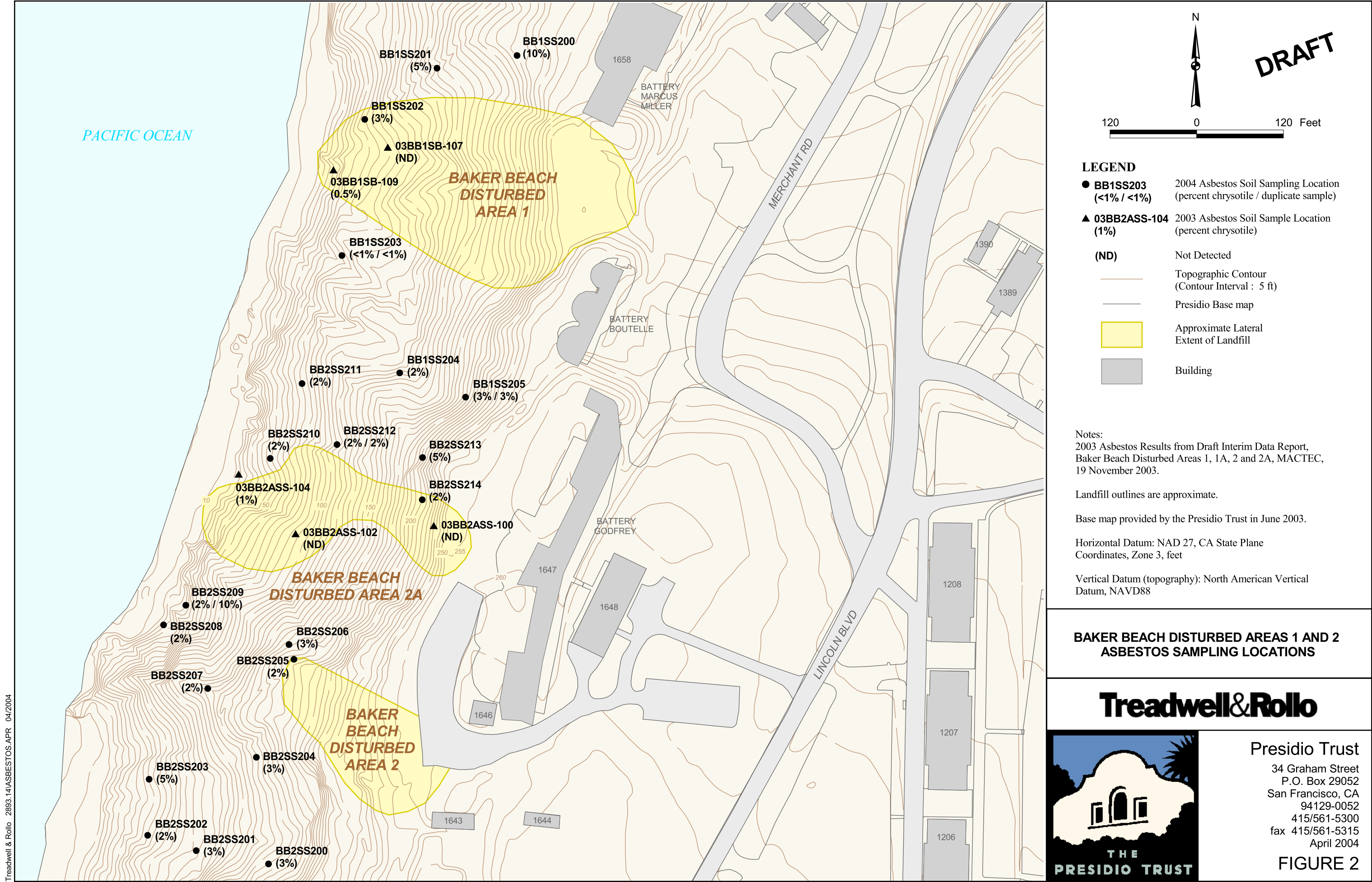
**Treadwell&Rollo**

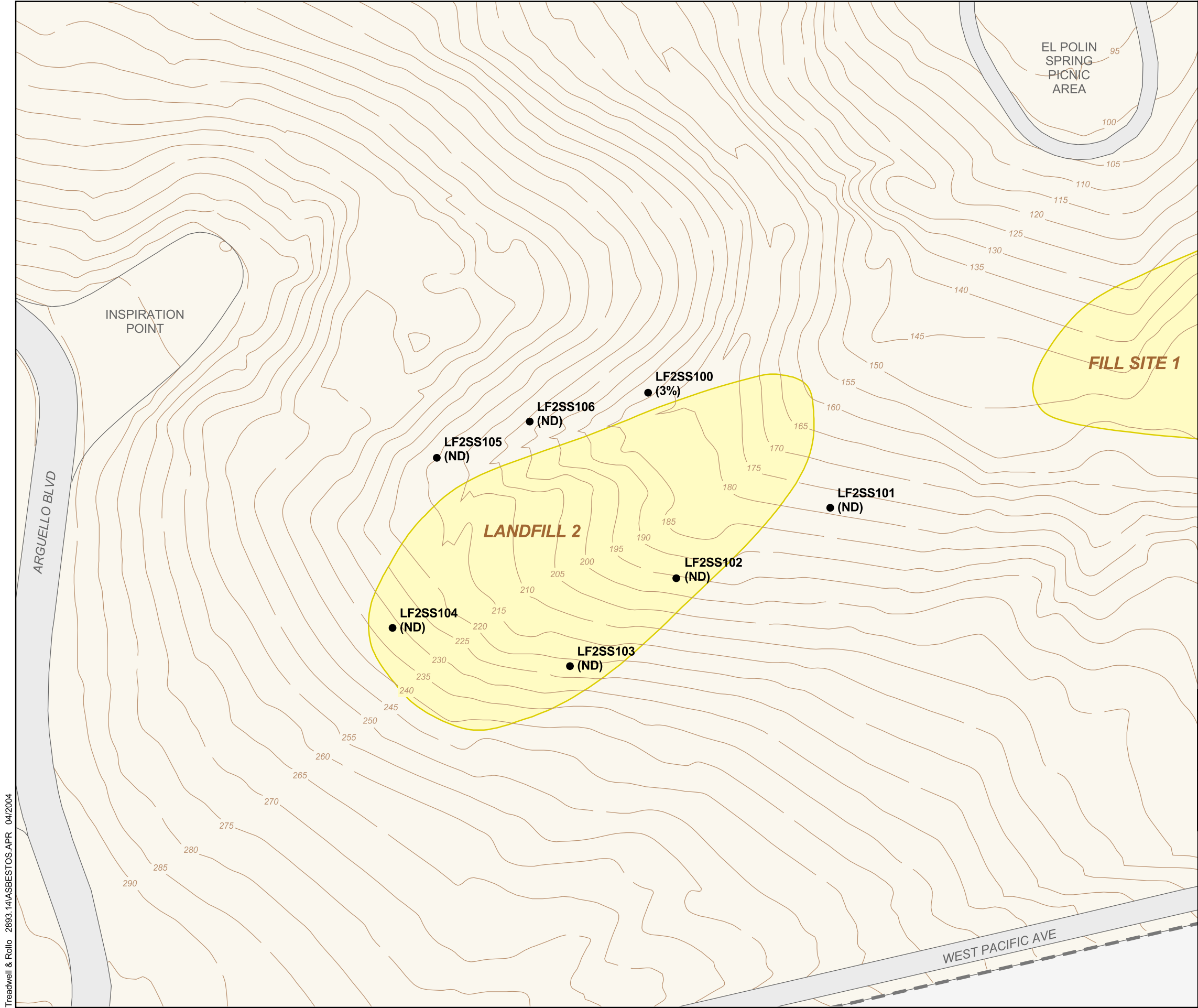


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**FIGURE 1**







N

100

0

100 Feet

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● LF2SS100  
(3%)

(ND)

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2004 Asbestos Soil Sampling Location  
(percent chrysotile)

Not Detected

Presidio Boundary

Presidio Basemap

Topographic Contour  
(Contour Interval : 5 ft)

Approximate Lateral  
Extent of Landfill

Notes:

Landfill outlines are approximate.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane  
Coordinates, Zone 3, feet

LANDFILL 2  
ASBESTOS SAMPLING LOCATIONS

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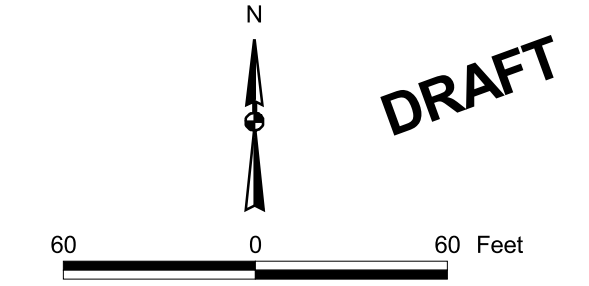
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FIGURE 3

Treadwell & Rollo 2893.14\ASBESTOS.APR 04/2004



Treadwell & Rollo 2893.14/ASBESTOS.APR 04/2004





- LEGEND**
- **633SS100 (<1%)** 2004 Asbestos Soil Sampling Location (percent chrysotile)
  - (ND) Not Detected
  - - - Firing Range Boundary from Revised Feasibility Study, Main Installation Sites, EKI 2003
  - x- Fence Boundary
  - Presidio Basemap
  - Topographic Contours (Contour Interval : 1 ft)
  - Former Above Ground Storage Tank
  - Sensitive Vegetation (NPS, 2001a)
  - 633 Building and Number

Notes:  
Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane  
Coordinates, Zone 3, feet

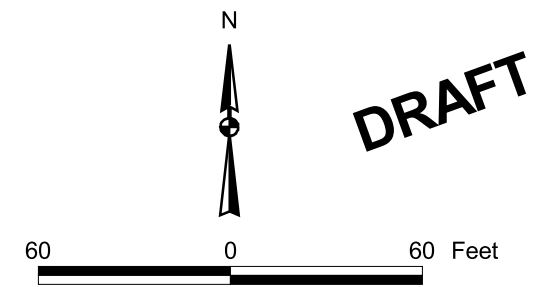
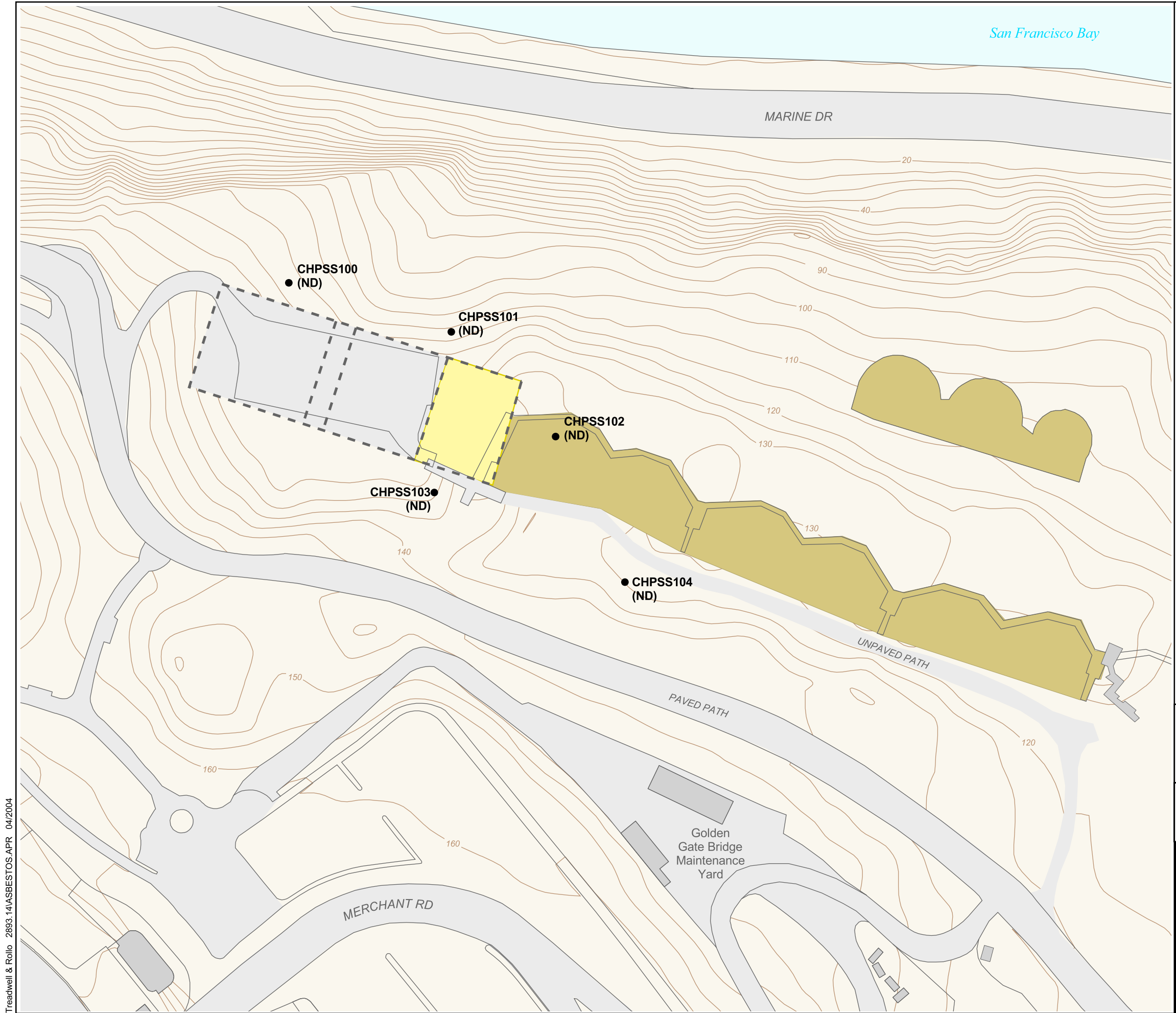
**BUILDING 633 FIRING RANGE  
ASBESTOS SAMPLING LOCATIONS**



**Presidio Trust**  
34 Graham Street  
P.O. Box 29052  
San Francisco, CA 94129-0052  
415/561-5300  
fax 415/561-5315  
April 2004

**FIGURE 4**

Treadwell & Rollo 2893.14/ASBESTOS.APR 04/2004



- LEGEND**
- **CHPSS100** 2004 Asbestos Soil Sampling Location (percent chrysotile)
  - (ND) Not Detected
  - - - Firing Range Boundary from Montgomery Watson 1997 SI
  - Presidio Basemap
  - Topographic Contours (Contour Interval : 5 ft)
  - Yellow shaded area Battery Portions Used as Backstop
  - Gold shaded area Gun Battery East
  - Gray shaded area Building

Notes:  
Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane  
Coordinates, Zone 3, feet

**CALIFORNIA HIGHWAY PATROL  
PISTOL RANGE  
ASBESTOS SAMPLING LOCATIONS**

**Treadwell&Rollo**

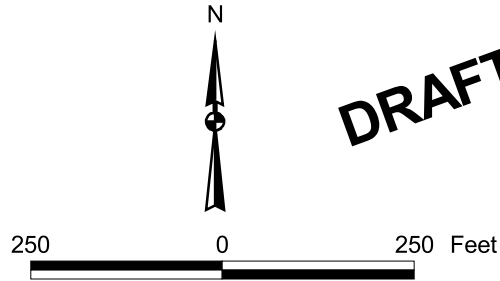
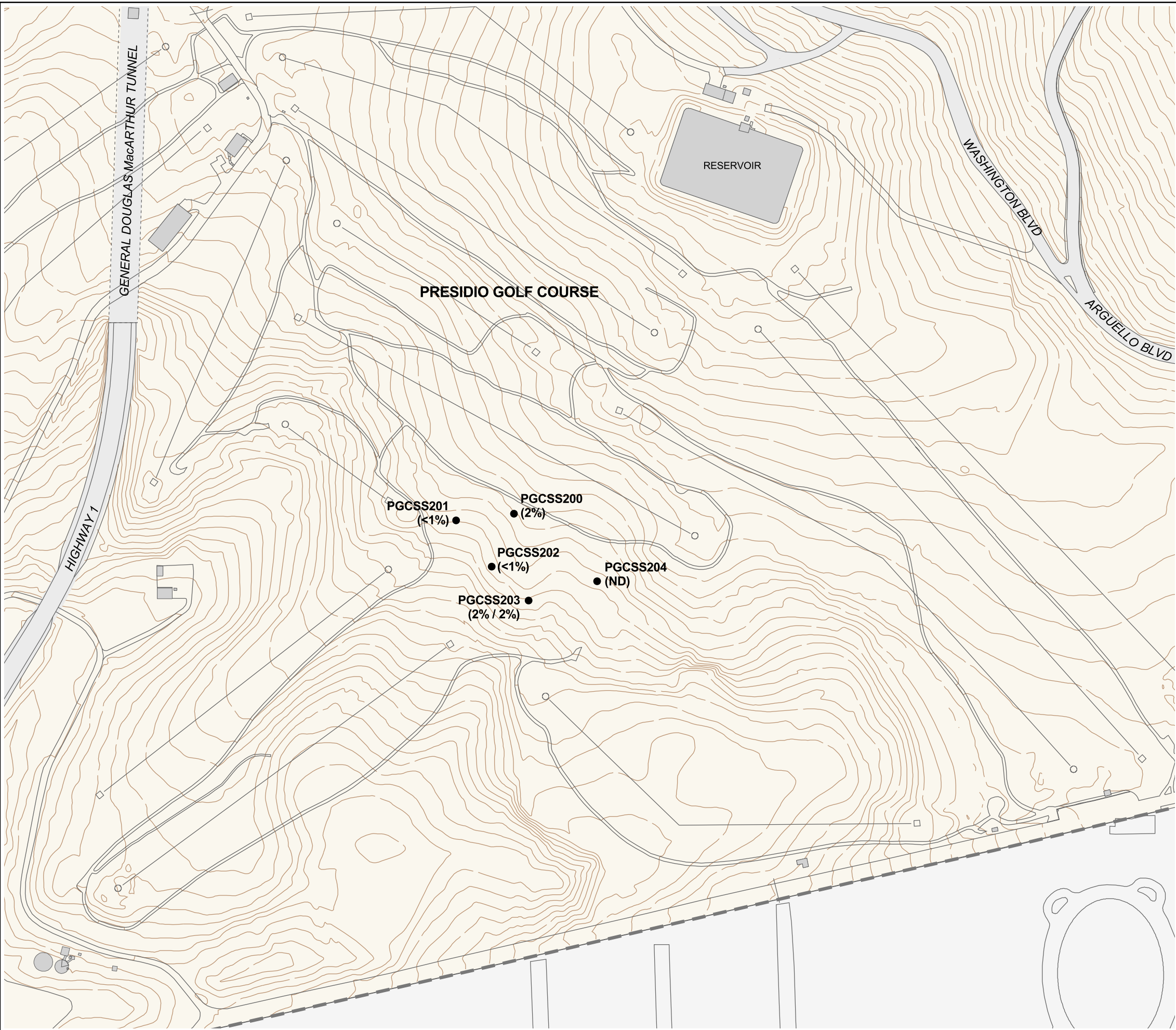


**Presidio Trust**  
34 Graham Street  
P.O. Box 29052  
San Francisco, CA  
94129-0052  
415/561-5300  
fax 415/561-5315  
April 2004

**FIGURE 5**



Treadwell & Rollo 2893.14/ASBESTOS.APR 04/2004



DRAFT

LEGEND

- PGCSS200 (2%) 2004 Asbestos Soil Sampling Location (percent chrysotile / duplicate sample)
- (ND) Not Detected
- Presidio Boundary
- Presidio Basemap
- Topographic Contours (Contour Interval : 5 ft)
- Building

Notes:  
Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane  
Coordinates, Zone 3, feet

Vertical Datum (topography): North American Vertical  
Datum, NAVD88

PRESIDIO GOLF COURSE  
ASBESTOS SAMPLING LOCATIONS

Treadwell&Rollo



Presidio Trust  
34 Graham Street  
P.O. Box 29052  
San Francisco, CA  
94129-0052  
415/561-5300  
fax 415/561-5315  
April 2004

FIGURE 6

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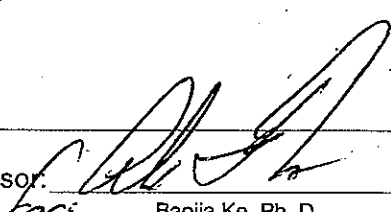
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TREADWELL & ROLLO  
1039

BULK ASBESTOS ANALYSIS - PLM SOIL

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111PROJECT:  
PRESIDIO ASBESTOS SURVEY  
JOB NO. 2893.14Micro Log In 56217  
Total Samples 42  
Date Sampled 03/09/2004  
Date Received 03/12/2004  
Date Analyzed 03/16/2004

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client:	LF2SS100		
Micro: 56217-01 SOIL TESTING	Analyst: BK	3% CHRYSOTILE	ROCK FRAGMENTS SERPENTINE
Client:	LF2SS106		
Micro: 56217-02 SOIL TESTING	Analyst: BK	NONE DETECTED	ROCK FRAGMENTS OPAQUES
Client:	LF2SS105		
Micro: 56217-03 SOIL TESTING	Analyst: BK	NONE DETECTED	ROCK FRAGMENTS OPAQUES
Client:	LF2SS101		
Micro: 56217-04 SOIL TESTING	Analyst: BK	NONE DETECTED	ROCK FRAGMENTS OPAQUES
Client:	LF2SS102		
Micro: 56217-05 SOIL TESTING	Analyst: BK	NONE DETECTED	ROCK FRAGMENTS OPAQUES

Technical Supervisor: 

Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

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## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:

**PRESIDIO ASBESTOS SURVEY**  
**JOB NO. 2893.14**

Micro Log In **56217**

Total Samples **42**

Date Sampled **03/09/2004**

Date Received **03/12/2004**

Date Analyzed **03/16/2004**

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>LF2SS103</b>		<b>NONE DETECTED</b>	<b>ROCK FRAGMENTS OPAQUES</b>
Micro: 56217-06 SOIL TESTING	Analyst: BK		
Client: <b>LF2SS104</b>		<b>NONE DETECTED</b>	<b>ROCK FRAGMENTS OPAQUES</b>
Micro: 56217-07 SOIL TESTING	Analyst: BK		
Client: <b>CHPSS100</b>		<b>NONE DETECTED</b>	<b>ROCK FRAGMENTS OPAQUES</b>
Micro: 56217-08 SOIL TESTING	Analyst: BK		
Client: <b>CHPSS101</b>		<b>NONE DETECTED</b>	<b>ROCK FRAGMENTS OPAQUES</b>
Micro: 56217-09 SOIL TESTING	Analyst: BK		
Client: <b>CHPSS103</b>		<b>NONE DETECTED</b>	<b>ROCK FRAGMENTS OPAQUES</b>
Micro: 56217-10 SOIL TESTING	Analyst: BK		

Technical Supervisor

Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

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Page 3 of 9

**BULK ASBESTOS ANALYSIS - PLM SOIL**

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:

**PRESIDIO ASBESTOS SURVEY**  
**JOB NO. 2893.14**

Micro Log In **56217**

Total Samples 42

Date Sampled 03/09/2004

Date Received 03/12/2004

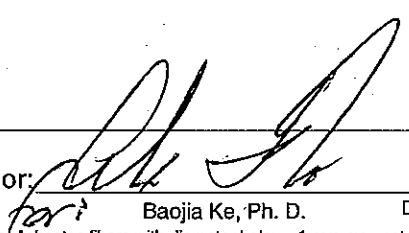
Date Analyzed 03/16/2004

**ASBESTOS INFORMATION**

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT  
OTHER MATERIALS

SAMPLE INFORMATION		ASBESTOS INFORMATION	DOMINANT OTHER MATERIALS
Client:	CHPSS102	NONE DETECTED	ROCK FRAGMENTS OPAQUES
Micro: 56217-11 SOIL TESTING	Analyst: BK		
Client:	CHPSS104	NONE DETECTED	ROCK FRAGMENTS OPAQUES
Micro: 56217-12 SOIL TESTING	Analyst: BK		
Client:	BB1SS200	10% CHRYSOTILE	ROCK FRAGMENTS SERPENTINE
Micro: 56217-13 SOIL TESTING	Analyst: BK		
Client:	BB1SS201	5% CHRYSOTILE	ROCK FRAGMENTS SERPENTINE
Micro: 56217-14 SOIL TESTING	Analyst: BK		
Client:	BB1SS202	3% CHRYSOTILE	ROCK FRAGMENTS SERPENTINE
Micro: 56217-15 SOIL TESTING	Analyst: BK		

Technical Supervisor: 

Baojia Ke, Ph. D.

3/17/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0, California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.



# MICRO ANALYTICAL LABORATORIES, INC.

Page 4 of 9

## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:

**PRESIDIO ASBESTOS SURVEY  
JOB NO. 2893.14**

Micro Log In **56217**

Total Samples 42

Date Sampled 03/09/2004

Date Received 03/12/2004

Date Analyzed 03/16/2004

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client:	BB1SS203		
Micro: 56217-16 SOIL TESTING	Analyst: GR	<1% CHRYSOTILE	ROCK FRAGMENTS CLAY SERPENTINE
Client:	DUP030904A		
Micro: 56217-17 SOIL TESTING	Analyst: GR	<1% CHRYSOTILE	ROCK FRAGMENTS CLAY SERPENTINE
Client:	BB1SS204		
Micro: 56217-18 SOIL TESTING	Analyst: GR AF	2% CHRYSOTILE	5% CELLULOSE  ROCK FRAGMENTS CLAY SERPENTINE
Client:	BB1SS205		
Micro: 56217-19 SOIL TESTING	Analyst: GR	3% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE
Client:	DUP030904B		
Micro: 56217-20 SOIL TESTING	Analyst: GR	3% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE

Technical Supervisor:

Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1865a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

# MICRO ANALYTICAL LABORATORIES, INC.

Page 5 of 9

## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:

**PRÉSIDIO ASBESTOS SURVEY**  
**JOB NO. 2893.14**

Micro Log In **56217**

Total Samples 42

Date Sampled 03/09/2004

Date Received 03/12/2004

Date Analyzed 03/16/2004

### ASBESTOS INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT  
OTHER MATERIALS

SAMPLE INFORMATION		ASBESTOS INFORMATION		DOMINANT OTHER MATERIALS
Client:	633SS100			
Micro: 56217-21	Analyst: GR	<1% CHRYSOTILE		ROCK FRAGMENTS OPAQUES CLAY
SOIL TESTING				
Client:	633SS101			
Micro: 56217-22	Analyst: GR	NONE DETECTED		ROCK FRAGMENTS OPAQUES CLAY
SOIL TESTING				
Client:	633SS102			
Micro: 56217-23	Analyst: GR	<1% CHRYSOTILE		ROCK FRAGMENTS OPAQUES CLAY
SOIL TESTING				
Client:	633SS103			
Micro: 56217-24	Analyst: GR	NONE DETECTED		ROCK FRAGMENTS OPAQUES CLAY
SOIL TESTING				
Client:	633SS104			
Micro: 56217-25	Analyst: GR	<1% CHRYSOTILE		ROCK FRAGMENTS OPAQUES CLAY
SOIL TESTING				

Technical Supervisor

Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

5900 HOLLIS STREET, SUITE M - EMERYVILLE, CA 94608 - (510) 653-0824

# MICRO ANALYTICAL LABORATORIES, INC.

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## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:  
**PRESIDIO ASBESTOS SURVEY**  
**JOB NO. 2893.14**

Micro Log In **56217**  
Total Samples 42  
Date Sampled 03/10/2004  
Date Received 03/12/2004  
Date Analyzed 03/16/2004

### ASBESTOS INFORMATION

#### SAMPLE INFORMATION

#### QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

#### DOMINANT OTHER MATERIALS

Client: <b>BB2SS204</b>		
Micro: 56217-26 SOIL TESTING	Analyst: MG <b>3% CHRYSOTILE</b>	ROCK FRAGMENTS OPAQUES SERPENTINE
Client: <b>BB2SS203</b>		
Micro: 56217-27 SOIL TESTING	Analyst: MG <b>5% CHRYSOTILE</b>	ROCK FRAGMENTS OPAQUES SERPENTINE
Client: <b>BB2SS202</b>		
Micro: 56217-28 SOIL TESTING	Analyst: MG <b>2% CHRYSOTILE</b>	ROCK FRAGMENTS OPAQUES SERPENTINE
Client: <b>BB2SS201</b>		
Micro: 56217-29 SOIL TESTING	Analyst: MG <b>3% CHRYSOTILE</b>	ROCK FRAGMENTS OPAQUES SERPENTINE
Client: <b>BB2SS200</b>		
Micro: 56217-30 SOIL TESTING	Analyst: MG <b>3% CHRYSOTILE</b>	ROCK FRAGMENTS OPAQUES SERPENTINE

Technical Supervisor:

for: Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); P = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

# MICRO ANALYTICAL LABORATORIES, INC.

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## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:  
**PRESIDIO ASBESTOS SURVEY**  
JOB NO. 2893.14

Micro Log In **56217**

Total Samples 42

Date Sampled 03/10/2004

Date Received 03/12/2004

Date Analyzed 03/16/2004

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client:	BB2SS205	2% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE
Micro: 56217-31 SOIL TESTING	Analyst: MG		
Client:	BB2SS206	3% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE
Micro: 56217-32 SOIL TESTING	Analyst: MG		
Client:	BB2SS207	2% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE
Micro: 56217-33 SOIL TESTING	Analyst: MG		
Client:	BB2SS208	2% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE
Micro: 56217-34 SOIL TESTING	Analyst: MG		
Client:	BB2SS209	2% CHRYSOTILE	ROCK FRAGMENTS OPAQUES SERPENTINE
Micro: 56217-35 SOIL TESTING	Analyst: MG		

Technical Supervisor:

Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantification limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0, California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

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**MICRO ANALYTICAL LABORATORIES, INC.**

Page 8 of 9

**BULK ASBESTOS ANALYSIS - PLM SOIL**

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:  
**PRESIDIO ASBESTOS SURVEY**  
**JOB NO. 2893.14**

Micro Log In **56217**Total Samples **42**Date Sampled **03/10/2004**Date Received **03/12/2004**Date Analyzed **03/16/2004**

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client:	<b>DUP031004A</b>		
Micro: 56217-36 SOIL TESTING	Analyst: MG	<b>10% CHRYSOTILE</b>	<b>ROCK FRAGMENTS OPAQUES SERPENTINE</b>
Client:	<b>P6CSS200</b>		
Micro: 56217-37 SOIL TESTING	Analyst: MG	<b>2% CHRYSOTILE</b>	<b>ROCK FRAGMENTS OPAQUES SERPENTINE</b>
Client:	<b>P6CSS201</b>		
Micro: 56217-38 SOIL TESTING	Analyst: MG	<b>&lt;1% CHRYSOTILE</b>	<b>ROCK FRAGMENTS OPAQUES CLAY</b>
Client:	<b>P6CSS202</b>		
Micro: 56217-39 SOIL TESTING	Analyst: MG	<b>&lt;1% CHRYSOTILE</b>	<b>ROCK FRAGMENTS OPAQUES SERPENTINE CLAY</b>
Client:	<b>P6CSS203</b>		
Micro: 56217-40 SOIL TESTING	Analyst: MG	<b>2% CHRYSOTILE</b>	<b>10 % CELLULOSE  ROCK FRAGMENTS OPAQUES SERPENTINE CLAY</b>

Technical Supervisor:

Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

# MICRO ANALYTICAL LABORATORIES, INC.

Page 9 of 9

## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

### PROJECT:

**PRESIDIO ASBESTOS SURVEY**  
**JOB NO. 2893.14**

Micro Log In **56217**Total Samples **42**Date Sampled **03/10/2004**Date Received **03/12/2004**Date Analyzed **03/16/2004**

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>DUP031004B</b>			
Micro: <b>56217-41</b> SOIL TESTING	Analyst: <b>MG</b>	<b>2% CHRYSOTILE</b>	<b>10 % CELLULOSE</b>  ROCK FRAGMENTS OPAQUES SERPENTINE CLAY
Client: <b>P6CSS204</b>			
Micro: <b>56217-42</b> SOIL TESTING	Analyst: <b>MG</b>	<b>NONE DETECTED</b>	<b>20 % CELLULOSE</b>  ROCK FRAGMENTS OPAQUES CLAY

Technical Supervisor

  
Baojia Ke, Ph. D.

3/16/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered-wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed within acceptance limits; B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.







# CHAIN OF CUSTODY RECORD


Page 3 of 3

President of San Francisco, CA Absents Survey

Job Number: 28013.14

Project Manager/Contact: Mr. Cameron Scott

**Samplers:**

Recorder (Signature Required):		No. Containers
		& Preservative
		Matrix

29 30 31 32 33 34 35 36 37 38 39 40 41 42

Yellow Copy - Laboratory

Pink Copy - Field ---

COC Number: 003032

# MICRO ANALYTICAL LABORATORIES, INC.

Page 1 of 2

## BULK ASBESTOS ANALYSIS - PLM SOIL

1039

PROJECT:

Micro Log In **56947**

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

**PRESIDIO OF SAN FRANCISCO**  
**JOB NO. 2593.14**

Total Samples 6

Date Sampled 03/31/2004

Date Received 04/01/2004

Date Analyzed 04/05/2004

**RECEIVED**

**APR 07 2004**

**TREADWELL & ROLLO**

SAMPLE INFORMATION		ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>BB2SS210</b>			
Micro: 56947-01 PLM SOIL	Analyst: GR	2% CHRYSOTILE	ROCK FRAGMENTS GLASS FRAGMENTS NON-FIBROUS SERPENTINE
Client: <b>BB2SS211</b>			
Micro: 56947-02 PLM SOIL	Analyst: GR	2% CHRYSOTILE	ROCK FRAGMENTS GLASS FRAGMENTS NON-FIBROUS SERPENTINE
Client: <b>BB2SS212</b>			
Micro: 56947-03 PLM SOIL	Analyst: GR	2% CHRYSOTILE	ROCK FRAGMENTS GLASS FRAGMENTS NON-FIBROUS SERPENTINE
Client: <b>BB2SS213</b>			
Micro: 56947-04 PLM SOIL	Analyst: GR BK	5% CHRYSOTILE	ROCK FRAGMENTS GLASS FRAGMENTS NON-FIBROUS SERPENTINE
Client: <b>BB2SS214</b>			
Micro: 56947-05 PLM SOIL	Analyst: GR	2% CHRYSOTILE	ROCK FRAGMENTS GLASS FRAGMENTS NON-FIBROUS SERPENTINE

Technical Supervisor:

4/5/2004

Baojia Ke, Ph. D.

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1863a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0, California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

# MICRO ANALYTICAL LABORATORIES, INC.

Page 2 of 2

BULK ASBESTOS ANALYSIS - PLM SOIL

1039

Treadwell & Rollo  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

PROJECT:

PRESIDIO OF SAN FRANCISCO  
JOB NO. 2593.14

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APR 07 2004

Micro Log In 56947

Total Samples 6

Date Sampled 03/31/2004

Date Received 04/01/2004

Date Analyzed 04/05/2004

TREADWELL & ROLLO

ASBESTOS INFORMATION

SAMPLE INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT  
OTHER MATERIALS

Client: DUP033104A		
Micro: 56947-06 PLM SOIL	Analyst: GR 2% CHRYSOTILE	ROCK FRAGMENTS GLASS FRAGMENTS NON-FIBROUS SERPENTINE

Technical Supervisor:



Baojia Ke, Ph. D.

4/5/2004

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below ~1 mm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = results confirmed (within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories.

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**Attachment B**  
**Air Sample Laboratory Reports**

# SCHNEIDER LABORATORIES INCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117  
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AIHA/ELLAP 100527, NVLAP 101150-0, NYELAP/NELAC 11413, CAELAP 2078, NC 593

## LABORATORY ANALYSIS REPORT

Asbestos and Other Fibers Counted By NIOSH 7400 Method, Issue 2, Aug. 12, 1994

ACCOUNT #: 3002-04-319  
CLIENT: RGA Environmental Inc.  
ADDRESS: 1468 68TH STREET  
EMERYVILLE, CA 94608-1014

DATE COLLECTED: 5/11/2004  
DATE RECEIVED: 5/18/2004  
DATE ANALYZED: 5/18/2004  
DATE REPORTED: 7/1/2004  
RESPIRATOR:

PO NO.:  
PROJECT NAME: Baker Beach  
PROJECT NO.: TR10249  
JOB LOCATION: Presidio, CA

Personal and Excursion Samples Collected For OSHA Compliance.

SLI Sample No.	Client Sample No.	Sample Identification	Sample Date	Flow Rate (L/min)	Sample Time (min)	Sample Volume (L)	Fiber Count (f/field)	Actual 30 Min Exp. (f/cc)	8 Hr TWA (f/cc)
28019708M342253		1A	5/11/04	2.00	95	190.0	< 0.055	< 0.014	
28019709M342251		1B	5/11/04	2.00	48	96.0	< 0.055	< 0.028	
28019710M342197		1C	5/11/04	2.00	121	242.0	< 0.055	< 0.011	
		Marianne							< 0.008
28019711M342256		2A	5/11/04	2.00	90	180.0	< 0.055	< 0.015	
28019712M342200		2B	5/11/04	2.00	48	96.0	< 0.055	< 0.028	
28019713M342234		2C	5/11/04	2.00	121	242.0	< 0.055	< 0.011	
		Mary							< 0.008
28019714M342191			5/11/04	2.00	30	60.0	< 0.055	< 0.045	< 0.045
		Mary							
28019715M342209			5/11/04	2.00	30	60.0	< 0.055	< 0.045	< 0.045
		Marianne							

ANALYST: SUSAN CHILDRESS

Total no. of pages in report = 2

REVIEWED BY

### \* AMENDED REPORT \*

OSHA PELs are 1.0 f/cc for 30 min excursion and 0.1 f/cc for 8 hour TWA. Method Limit: 0.01 f/cc. Microscopic field area (mm<sup>2</sup>): 0.00785. Estimated limit of detection: 7 f/mm<sup>2</sup>. Results are not blank-corrected unless noted by analyst.

Exposure calculations are based on client-supplied information. 8 hour TWAs assume zero exposure for time not sampled.  
Estimated relative standard deviations: Intra-Laboratory: ± 0.26; Inter-Laboratory: ± 0.41.



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## LABORATORY ANALYSIS REPORT

Asbestos and Other Fibers Counted By NIOSH 7400 Method, Issue 2, Aug. 12, 1994

ACCOUNT: 3002-04-319  
CLIENT: RGA Environmental Inc.  
ADDRESS: 1486 66TH STREET  
EMERYVILLE, CA 94608-1014

DATE COLLECTED: 5/11/04  
DATE RECEIVED: 5/18/04  
DATE ANALYZED: 5/18/04  
DATE REPORTED: 7/1/04  
RESPIRATOR:

PO NO.:  
PROJECT NAME: Baker Beach  
PROJECT NO.: TR10249  
JOB LOCATION: Presidio, CA

### Area and Environmental Samples

SLI Sample No.	Client Sample No.	Sample Identification	Sample Date	Flow Rate (L/min)	Sample Time (min)	Sample Volume (L)	Fiber Count (f/field)	Actual Exposure (f/cc)
28019706	M342258	Upwind	5/11/04	2.00	233	466.0	< 0.055	< 0.006
28019707	M342262	Down Wind	5/11/04	2.00	233	466.0	< 0.055	< 0.006

ANALYST: SUSAN CHILDRESS

Total no. of pages in report = 2

  
REVIEWED BY

### \* AMENDED REPORT \*

OSHA PEL is 0.1 f/cc for 8h TWA. Method limit: 0.01 f/cc. Results are not blank-corrected unless noted by analyst.

Exposure calculations are based on client-supplied information. 8 hour TWAs assume zero exposure for time not sampled.

Microscopic field area (mm<sup>2</sup>): 0.00785. Estimated limit of detection: .7 f/mm<sup>2</sup>.

Estimated relative standard deviations: Intra-Laboratory:  $\pm 0.26$ ; Inter-Laboratory:  $\pm 0.41$ .



1466 - 66<sup>th</sup> Street  
Emeryville, CA 94608  
Tel: (510) 547-7771  
Fax: (510) 547-1983

311 California Street Ste 320  
San Francisco, CA 94102  
Tel: (415) 834-9660  
Fax: (415) 834-9670

948 - 11<sup>th</sup> St., Ste 114  
Modesto, CA 94004  
Tel: (209) 525-8108  
Fax: (209) 525-8109

# PCM AIR SAMPLE DATA SHEET

\* PCM Analysis  
NIOSH 7400A

PAGE 1 OF 2

Project Name/Address: BARKER BEACH DISTURBED AREA I, PRESIDIO, CA P.M. Initial: KP  
RGA Project #: TR-10249 Sampled By: MARY ZABICA Sampling Date: 5.11.04  
Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☒ Other: \_\_\_\_\_ Turnaround Time: \_\_\_\_\_ Rush \_\_\_\_\_ 24Hrs \_\_\_\_\_ 3-5 Days  
Fax Report To: ☒ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

ANALYZED BY RGA (NAME): \_\_\_\_\_

DATE: \_\_\_\_\_

SAMPLE ID: M342258  
SAMPLE LOCATION: UPWIND  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☒ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

TIME ON: 9:19 TIME OFF: 3:12  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 233 VOLUME: 466 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: M342262  
SAMPLE LOCATION: DOWN WIND  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☒ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

TIME ON: 9:19 TIME OFF: 3:12  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 233 VOLUME: 466 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: M342253  
SAMPLE LOCATION: MARIANNE I-A  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

TIME ON: 9:20 TIME OFF: 10:55  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 95 VOLUME: 190 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: M342251  
SAMPLE LOCATION: MARIANNE I-B  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

TIME ON: 10:55 TIME OFF: 11:43  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 48 VOLUME: 96 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: M342197  
SAMPLE LOCATION: MARIANNE I-C  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

TIME ON: 1:09 TIME OFF: 3:10  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 121 VOLUME: 242 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received By: W. G. Williams 10:30 Signature: [Signature] Date/Time: 5/18/04  
\* SAMPLES WERE OFF FROM 12/12 - 1/2 FNL 1



1466 - 66<sup>th</sup> Street  
Emeryville, CA 94608  
Tel: (510) 547-7771  
Fax: (510) 547-1983

311 California Street Ste 320  
San Francisco, CA 94102  
Tel: (415) 834-9660  
Fax: (415) 834-9670

948 - 11<sup>th</sup> St., Ste 11-4  
Modesto, CA 94354  
Tel: (209) 525-8108  
Fax: (209) 525-8109

## PCM AIR SAMPLE DATA SHEET

\* PCM Analysis  
\* NIOSH 7400A

PAGE 2 OF 2

Project Name/Address: BAYVIEW BEACH I, PLEASANTON, CA P.M. Initial: KP  
RGA Project #: TR10249 Sampled By: MARY THOMAS Sampling Date: 5.11.04  
Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☒ Other: \_\_\_\_\_ Turnaround Time: \_\_\_\_\_ Rush ☐ 24Hrs ☐ 3-5 Days  
Fax Report To: ☒ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

ANALYZED BY RGA (NAME): \_\_\_\_\_

DATE: \_\_\_\_\_

SAMPLE ID: <u>M342256</u>	TIME ON: <u>920</u>	TIME OFF: <u>1050</u>
SAMPLE LOCATION: <u>MARY - 2-A</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>90</u>	VOLUME: <u>180</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: <u>WEEDING IN SERPENTINE SOTL</u>	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: <u>M342200</u>	TIME ON: <u>1055</u>	TIME OFF: <u>1143</u>
SAMPLE LOCATION: <u>MARY 2-B</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>48</u>	VOLUME: <u>96</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: <u>M342234</u>	TIME ON: <u>109</u>	TIME OFF: <u>810</u>
SAMPLE LOCATION: <u>MARY 2-C</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>121</u>	VOLUME: <u>242</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: <u>M342191</u>	TIME ON: <u>920</u>	TIME OFF: <u>950</u>
SAMPLE LOCATION: <u>STER - MARY</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>30</u>	VOLUME: <u>60</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: <u>M342209</u>	TIME ON: <u>1059</u>	TIME OFF: <u>1120</u>
SAMPLE LOCATION: <u>STER - MARIANNE</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>30</u>	VOLUME: <u>60</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc

Relinquished By: MARY THOMAS

Signature: \_\_\_\_\_

Date/Time: 5/11/04

Received By: [Signature]

Signature: \_\_\_\_\_

Date/Time: 5.18.04

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## LABORATORY ANALYSIS REPORT

Asbestos and Other Fibers Counted By NIOSH 7400 Method, Issue 2, Aug. 12, 1994

ACCOUNT #: 3002-04-318  
CLIENT: RGA Environmental Inc.  
ADDRESS: 1466 66TH STREET  
EMERYVILLE, CA 94608-1014  
PO NO.:  
PROJECT NAME: Baker Beach II  
PROJECT NO.: TR10249  
JOB LOCATION: Presidio, CA

DATE COLLECTED: 5/13/2004  
DATE RECEIVED: 5/18/2004  
DATE ANALYZED: 5/18/2004  
DATE REPORTED: 6/30/2004  
RESPIRATOR:

Personal and Excursion Samples Collected For OSHA Compliance.

SLI Sample No.	Client Sample No.	Sample Identification	Sample Date	Flow Rate (L/min)	Sample Time (min)	Sample Volume (L)	Fiber Count (f/field)	Actual Exp. (f/cc)	30 Min TWA (f/cc)	8 Hr TWA (f/cc)
28019700M342188		Weeding	5/13/04	2.00	121	242.0	< 0.055	< 0.011		
28019703M342259		Weeding Marianne	5/13/04	2.00	120	240.0	0.105	0.021		0.005
28019701M342175		Weeding Mary	5/13/04	2.00	121	242.0	< 0.055	< 0.011		< 0.003
28019702M342181		Weeding Mike	5/13/04	2.00	30	60.0	< 0.055	< 0.045	< 0.045	
28019704M342244		Weeding Marianne	5/13/04	2.00	30	60.0	< 0.055	< 0.045	< 0.045	
28019705M342505		Mike	5/13/04	2.00	120	240.0	< 0.055	< 0.011		< 0.003

ANALYST: SUSAN CHILDRESS

Total no. of pages in report =

REVIEWED BY

KATHERINE M. CHARLES

OSHA PELs are 1.0 f/cc for 30 min excursion and 0.1 f/cc for 8 hour TWA. Method Limit: 0.01 f/cc. Microscopic field area (mm<sup>2</sup>): 0.00785. Estimated limit of detection: 7 f/mm<sup>2</sup>. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on client-supplied information. 8 hour TWAs assume zero exposure for time not sampled. Estimated relative standard deviations: Intra-Laboratory:  $\pm 0.26$ ; Inter-Laboratory:  $\pm 0.41$ .

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## LABORATORY ANALYSIS REPORT

Asbestos and Other Fibers Counted By NIOSH 7400 Method, Issue 2, Aug. 12, 1994

ACCOUNT: 3002-04-318  
CLIENT: RGA Environmental Inc.  
ADDRESS: 1468 66TH STREET  
EMERYVILLE, CA 94608-1014

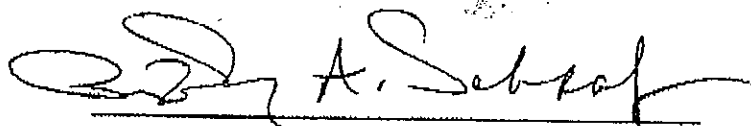
DATE COLLECTED: 5/13/2004  
DATE RECEIVED: 5/18/2004  
DATE ANALYZED: 5/18/2004  
DATE REPORTED: 5/19/2004  
RESPIRATOR:

PO NO.:  
PROJECT NAME: Baker Beach II  
PROJECT NO.: TR10249  
JOB LOCATION: Presidio, CA

### Area and Environmental Samples

SLI Sample No.	Client Sample No.	Sample Identification	Sample Date	Flow Rate (L/min)	Sample Time (min)	Sample Volume (L)	Fiber Count (f/field)	Actual Exposure (f/cc)
28019698	M342179	Up	5/13/2004	2.00	240	480.0	Too overloaded to count	
28019699	M342173	Down	5/13/2004	2.00	240	480.0	< 0.055	< 0.006

ANALYST: SUSAN CHILDRESS  
Total no. of pages in report = 2



REVIEWED BY

BEVERLY A. SCHRAGE

OSHA PEL is 0.1 f/cc for 8h TWA. Method limit: 0.01 f/cc. Results are not blank-corrected unless noted by analyst.  
Exposure calculations are based on client-supplied information. 8 hour TWAs assume zero exposure for time not sampled.  
Microscopic field area (mm<sup>2</sup>): 0.00785. Estimated limit of detection: 7 f/mm<sup>2</sup>.  
Estimated relative standard deviations: Intra-Laboratory:  $\pm 0.26$ ; Inter-Laboratory:  $\pm 0.41$ .



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Fax: (209) 525-8109

# PCM AIR SAMPLE DATA SHEET

\* PCM Analysis  
\* MESH 7400A

PAGE 1 OF 2

Project Name/Address: BAKER BEACH II, PRESIDIO, CA P.M. Initial: kp  
RGA Project #: TR-10249 Sampled By: MARY ZWISCH Sampling Date: 5.13.04  
Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☒ Other: \_\_\_\_\_ Turnaround Time: \_\_\_\_\_ Rush ☒ 3-5 Days  
Fax Report To: ☒ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

ANALYZED BY RGA (NAME): \_\_\_\_\_

DATE: \_\_\_\_\_

SAMPLE ID: <u>M342179</u>	TIME ON: <u>925</u> TIME OFF: <u>1325</u>
SAMPLE LOCATION: <u>UP</u>	FLOW RATES: <u>2.0</u> (LPM)
	TOTAL MINUTES: <u>240</u> VOLUME: <u>480</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input checked="" type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____ Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____ fibers/cc
SAMPLE ID: <u>M342173</u>	TIME ON: <u>925</u> TIME OFF: <u>1325</u>
SAMPLE LOCATION: <u>DOWN</u>	FLOW RATES: <u>2.0</u> (LPM)
	TOTAL MINUTES: <u>240</u> VOLUME: <u>480</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input checked="" type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____ Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____ fibers/cc
SAMPLE ID: <u>M342188</u>	TIME ON: <u>929</u> TIME OFF: <u>1130</u>
SAMPLE LOCATION: <u>MARTINE</u>	FLOW RATES: <u>2.0</u> (LPM)
	TOTAL MINUTES: <u>121</u> VOLUME: <u>242</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____ Number of Fields _____
WORK ACTIVITY: <u>WEEDING</u>	AIRBORNE FIBER CONC. = _____ fibers/cc
SAMPLE ID: <u>M342175</u>	TIME ON: <u>929</u> TIME OFF: <u>1130</u>
SAMPLE LOCATION: <u>MARY</u>	FLOW RATES: <u>2.0</u> (LPM)
	TOTAL MINUTES: <u>121</u> VOLUME: <u>242</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____ Number of Fields _____
WORK ACTIVITY: <u>WEEDING</u>	AIRBORNE FIBER CONC. = _____ fibers/cc
SAMPLE ID: <u>M342181</u>	TIME ON: <u>135</u> TIME OFF: <u>205</u>
SAMPLE LOCATION: <u>STE - MARY MIKE</u>	FLOW RATES: <u>2.0</u> (LPM)
	TOTAL MINUTES: <u>30</u> VOLUME: <u>60</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____ Number of Fields _____
WORK ACTIVITY: <u>WEEDING</u>	AIRBORNE FIBER CONC. = _____ fibers/cc

Relinquished By: MARY ZWISCH Signature: [Signature] Date/Time: 5/13/04  
Received By: [Signature] 5/18/04 Signature: [Signature] Date/Time: [Signature]



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## PCM AIR SAMPLE DATA SHEET

\* PCM Analysis

NIOSH 7400A

PAGE 2 OF 2

Project Name/Address: DAVEY BEACH II, PRESIDIO

P.M. Initial: KP

RGA Project #: TR-10244

Sampled By: MARY ZWILLER

Sampling Date: 5.3.01

Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☐ Other: \_\_\_\_\_

Turnaround Time: 24 Hrs 3-5 Days

Fax Report To: ☐ 510-547-1983

☐ 415-834-9670

☐ 209-525-8109

☐ (Fax #)

ANALYZED BY RGA (NAME): \_\_\_\_\_

DATE: \_\_\_\_\_

SAMPLE ID: <u>M342259</u>	TIME ON: <u>105</u>	TIME OFF: <u>305</u>
SAMPLE LOCATION: <u>MARTINE 1-B</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>120</u>	VOLUME: <u>240</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: <u>WEEDING</u>	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: <u>M342244</u>	TIME ON: <u>105</u>	TIME OFF: <u>185</u>
SAMPLE LOCATION: <u>MARTINE - STEL</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>30</u>	VOLUME: <u>60</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: <u>WEEDING</u>	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: <u>M342505</u>	TIME ON: <u>105</u>	TIME OFF: <u>305</u>
SAMPLE LOCATION: <u>MIKE - 3A</u>	FLOW RATES: <u>2.0</u> (LPM)	
	TOTAL MINUTES: <u>30</u>	VOLUME: <u>60</u> (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers <u>120</u>	Number of Fields <u>240</u>
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: _____	TIME ON: _____	TIME OFF: _____
SAMPLE LOCATION: _____	FLOW RATES: _____ (LPM)	
	TOTAL MINUTES: _____	VOLUME: _____ (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc
SAMPLE ID: _____	TIME ON: _____	TIME OFF: _____
SAMPLE LOCATION: _____	FLOW RATES: _____ (LPM)	
	TOTAL MINUTES: _____	VOLUME: _____ (L)
SAMPLE TYPE: <input type="checkbox"/> Clearance <input type="checkbox"/> Baseline <input type="checkbox"/> Perimeter <input type="checkbox"/> Area <input type="checkbox"/> Blank	Number of Fibers _____	Number of Fields _____
WORK ACTIVITY: _____	AIRBORNE FIBER CONC. = _____	fibers/cc

Relinquished By: \_\_\_\_\_

Signature: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received By: [Signature]

5.18-9

Signature: [Signature]

Date/Time: [Signature]



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## LABORATORY ANALYSIS REPORT

Asbestos and Other Fibers Counted By NIOSH 7400 Method, Issue 2, Aug. 12, 1994

ACCOUNT: 3002-04-321  
CLIENT: RGA Environmental Inc.  
ADDRESS: 1466 66TH STREET  
EMERYVILLE, CA 94608-1014

DATE COLLECTED: 5/12/2004  
DATE RECEIVED: 5/18/2004  
DATE ANALYZED: 5/18/2004  
DATE REPORTED: 5/19/2004  
RESPIRATOR:

PO NO.:  
PROJECT NAME: Golf Course  
PROJECT NO.: TR10249  
JOB LOCATION: Presidio, CA

### Area and Environmental Samples

SLI Sample No.	Client Sample No.	Sample Identification	Sample Date	Flow Rate (L/min)	Sample Time (min)	Sample Volume (L)	Fiber Count (f/field)	Actual Exposure (f/cc)
28019744	M342198	Up Wind	5/12/2004	2.00	368	736.0	< 0.055	< 0.004
28019745	M342254	Down Wind	5/12/2004	2.00	368	736.0	< 0.055	< 0.004

ANALYST: SUSAN CHILDRESS

Total no. of pages in report = 2

REVIEWED BY

BEVERLY A. SCHRAGE

OSHA PEL is 0.1 f/cc for 8h TWA. Method limit: 0.01 f/cc. Results are not blank-corrected unless noted by analyst.  
Exposure calculations are based on client-supplied information. 8 hour TWAs assume zero exposure for time not sampled.  
Microscopic field area (mm<sup>2</sup>): 0.00785. Estimated limit of detection: 7 f/mm<sup>2</sup>.  
Estimated relative standard deviations: Intra-Laboratory:  $\pm 0.26$ ; Inter-Laboratory:  $\pm 0.41$ .

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## LABORATORY ANALYSIS REPORT

Asbestos and Other Fibers Counted By NIOSH 7400 Method, Issue 2, Aug. 12, 1994

ACCOUNT #: 3002-04-321  
CLIENT: RGA Environmental Inc.  
ADDRESS: 1466 66TH STREET  
EMERYVILLE, CA 94608-1014  
PO NO.:  
PROJECT NAME: Golf Course  
PROJECT NO.: TR10249  
JOB LOCATION: Presidio, CA

DATE COLLECTED: 5/12/2004  
DATE RECEIVED: 5/18/2004  
DATE ANALYZED: 5/18/2004  
DATE REPORTED: 5/19/2004  
RESPIRATOR:

Personal and Excursion Samples Collected For OSHA Compliance.

SLI Sample No.	Client Sample No.	Sample Identification	Sample Date	Flow Rate (L/min)	Sample Time (min)	Sample Volume (L)	Fiber Count (f/field)	Actual Exp. (f/cc)	30 Min TWA (f/cc)	8 Hr TWA (f/cc)
28019741 M342189		1-A	5/12/2004	2.00	174	348.0	0.105	0.015		
28019742 M342190		1-B	5/12/2004	2.00	105	210.0	0.060	0.014		
		Marianne								0.008
28019743 M342250		2-A	5/12/2004	2.00	172	344.0	< 0.055	< 0.008		
28019746 M342460		2-B	5/12/2004	2.00	105	210.0	< 0.055	< 0.013		
		Mary								< 0.006
28019747 M342255			5/12/2004	2.00	30	60.0	< 0.055	< 0.045	< 0.045	
		Mary								
28019748 M342263			5/12/2004	2.00	30	60.0	< 0.055	< 0.045	< 0.045	
		Marlanne								

ANALYST: SUSAN CHILDRESS  
Total no. of pages in report = 2

REVIEWED BY

BEVERLY A. SCHRAGE

OSHA PELs are 1.0 f/cc for 30 min excursion and 0.1 f/cc for 8 hour TWA. Method Limit: 0.01 f/cc. Microscopic field area (mm<sup>2</sup>): 0.00785. Estimated limit of detection: 7 f/mm<sup>2</sup>. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on client-supplied information. 8 hour TWAs assume zero exposure for time not sampled. Estimated relative standard deviations: Intra-Laboratory: ± 0.26; Inter-Laboratory: ± 0.41.



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PCM AIR SAMPLE DATA SHEET

PCM Analyst  
\* NIOSH 7400A

PAGE 1 OF 2

Project Name/Address: GOLF COURSE, PRESIDIO, CA

P.M. Initial: KP

RGA Project #: TR10249

Sampled By: MARY TAVUTAH

Sampling Date: 5.12.04

Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☒ Other:

Turnaround Time: Rush 24Hrs 3-5 Days

Fax Report To: ☒ 510-547-1983

☐ 415-834-9670

☐ 209-525-8109

☐ (Fax #)

ANALYZED BY RGA (NAME):

DATE:

SAMPLE ID: M342189

TIME ON: 9:08

TIME OFF: 12:02

SAMPLE LOCATION: MARIANNE 1-A

FLOW RATES: 2.0

(LPM)

TOTAL MINUTES: 174

VOLUME: 348

(L)

SAMPLE TYPE: Clearance Baseline Perimeter Area Blank

Number of Fibers

Number of Fields

WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

AIRBORNE FIBER CONC. =

fibers/cc

SAMPLE ID: M342190

TIME ON: 1:32

TIME OFF: 3:5

SAMPLE LOCATION: MARIANNE 1-B

FLOW RATES: 2.0

(LPM)

TOTAL MINUTES: 105

VOLUME: 210

(L)

SAMPLE TYPE: Clearance Baseline Perimeter Area Blank

Number of Fibers

Number of Fields

WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

AIRBORNE FIBER CONC. =

fibers/cc

SAMPLE ID: M342250

TIME ON: 9:09

TIME OFF: 12:01

SAMPLE LOCATION: MARY - 2-A

FLOW RATES: 2.0

(LPM)

TOTAL MINUTES: 172

VOLUME: 344

(L)

SAMPLE TYPE: Clearance Baseline Perimeter Area Blank

Number of Fibers

Number of Fields

WORK ACTIVITY: WEEDING IN SERPENTINE SOIL

AIRBORNE FIBER CONC. =

fibers/cc

SAMPLE ID: M342198

TIME ON: 9:12

TIME OFF: 3:30

SAMPLE LOCATION: UPSTND

FLOW RATES: 2.0

(LPM)

TOTAL MINUTES: 368

VOLUME: 736

(L)

SAMPLE TYPE: Clearance Baseline ☒ Perimeter Area Blank

Number of Fibers

Number of Fields

WORK ACTIVITY:

AIRBORNE FIBER CONC. =

fibers/cc

SAMPLE ID: M342254

TIME ON: 9:12

TIME OFF: 3:30

SAMPLE LOCATION: DOWNSTND

FLOW RATES: 2.0

(LPM)

TOTAL MINUTES: 368

VOLUME: 736

(L)

SAMPLE TYPE: Clearance Baseline Perimeter Area Blank

Number of Fibers

Number of Fields

WORK ACTIVITY:

AIRBORNE FIBER CONC. =

fibers/cc

Relinquished By: MARY TAVUTAH

Signature: [Signature]

Date/Time: 5/12/04

Received By: [Signature]

Signature: [Signature]

Date/Time: 10:30



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## PCM AIR SAMPLE DATA SHEET

\* PCM Analysis  
\* NIOSH-7400A

PAGE 2 OF 2

Project Name/Address: \_\_\_\_\_

P.M. Initial: kp

RGA Project #: TR10749

Sampled By: MARY ZIVULICH

Sampling Date: \_\_\_\_\_

Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☒ Other: \_\_\_\_\_

Turnaround Time: \_\_\_\_\_ Rush ☐ 24Hrs ☐ 3-5 Days

Fax Report To: ☒ 510-547-1983

☐ 415-834-9670

☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

ANALYZED BY RGA (NAME): \_\_\_\_\_

DATE: \_\_\_\_\_

SAMPLE ID: M342460  
SAMPLE LOCATION: MARY 2-B  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEEDING IN SERPENTINE SOIL

TIME ON: 1:32 TIME OFF: 3:15  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 105 VOLUME: 210 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: M342255  
SAMPLE LOCATION: STEL - MARY  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEEDING IN SERPENTINE SOIL

TIME ON: 1:45 TIME OFF: 2:15  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 30 VOLUME: 60 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: M342263  
SAMPLE LOCATION: STEL - MARIANNE  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: WEEEDING IN SERPENTINE SOIL

TIME ON: 2:15 TIME OFF: 3:15  
FLOW RATES: 2.0 (LPM)  
TOTAL MINUTES: 30 VOLUME: 60 (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: \_\_\_\_\_  
SAMPLE LOCATION: \_\_\_\_\_  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: \_\_\_\_\_

TIME ON: \_\_\_\_\_ TIME OFF: \_\_\_\_\_  
FLOW RATES: \_\_\_\_\_ (LPM)  
TOTAL MINUTES: \_\_\_\_\_ VOLUME: \_\_\_\_\_ (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

SAMPLE ID: \_\_\_\_\_  
SAMPLE LOCATION: \_\_\_\_\_  
SAMPLE TYPE: ☐ Clearance ☐ Baseline ☐ Perimeter ☐ Area ☐ Blank  
WORK ACTIVITY: \_\_\_\_\_

TIME ON: \_\_\_\_\_ TIME OFF: \_\_\_\_\_  
FLOW RATES: \_\_\_\_\_ (LPM)  
TOTAL MINUTES: \_\_\_\_\_ VOLUME: \_\_\_\_\_ (L)  
Number of Fibers \_\_\_\_\_ Number of Fields \_\_\_\_\_  
AIRBORNE FIBER CONC. = \_\_\_\_\_ fibers/cc

Relinquished By: MARY ZIVULICH

Signature: \_\_\_\_\_

Date/Time: 5/12/04

Received By: H. C. [unclear]

10:50

Signature: S. [unclear]

Date/Time: 10

## **TABLES**

**Table 1**  
**Asbestos Results for Air Samples**  
**Asbestos Exposure Assessment**  
Presidio of San Francisco, California

Sample Name	Sample Location	Sample Type	Sample Date	Asbestos Content (f/cc)	8-Hour TWA (f/cc)	30-Minute TWA (f/cc)
<b>Baker Beach Disturbed Area 1</b>						
M342258	Upwind	Perimeter	05/11/04	<0.006	NA	NA
M342262	Downwind	Perimeter	05/11/04	<0.006	NA	NA
M342253	Marianne Gibbons - 1A	Personal, 1 of 3	05/11/04	<0.014	--	NA
M342251	Marianne Gibbons - 1B	Personal, 2 of 3	05/11/04	<0.028	--	NA
M342197	Marianne Gibbons - 1C	Personal, 3 of 3	05/11/04	<0.011	<0.008 <sup>2</sup>	NA
M342256	Mary O. Zibilich - 2A	Personal, 1 of 3	05/11/04	<0.015	--	NA
M342200	Mary O. Zibilich - 2B	Personal, 2 of 3	05/11/04	<0.028	--	NA
M342234	Mary O. Zibilich - 2C	Personal, 3 of 3	05/11/04	<0.011	<0.008 <sup>2</sup>	NA
M342209	Marianne Gibbons - STEL	Excursion	05/11/04	<0.045	NA	<0.045
M342191	Mary O. Zibilich - STEL	Excursion	05/11/04	<0.045	NA	<0.045
<b>Baker Beach Disturbed Area 2</b>						
M342179	Upwind	Perimeter	05/13/04	NA <sup>1</sup>	NA <sup>1</sup>	NA <sup>1</sup>
M342173	Downwind	Perimeter	05/13/04	<0.006	NA	NA
M342188	Marianne Gibbons - 1A	Personal, 1 of 2	05/13/04	<0.011	--	NA
M342159	Marianne Gibbons - 1B	Personal, 2 of 2	05/13/04	0.021	0.005 <sup>2</sup>	NA
M342175	Mary O. Zibilich - 2A	Personal, 1 of 1	05/13/04	<0.011	<0.003 <sup>2</sup>	NA
M342505	Mike Reed - 3A	Personal, 1 of 1	05/13/04	<0.011	<0.003 <sup>2</sup>	NA
M342244	Marianne Gibbons - STEL	Excursion	05/13/04	<0.045	NA	<0.045
M342181	Mike Reed - STEL	Excursion	05/13/04	<0.045	NA	<0.045
<b>Presidio Golf Course</b>						
M342198	Upwind	Perimeter	05/12/04	<0.004	NA	NA
M342254	Downwind	Perimeter	05/12/04	<0.004	NA	NA
M342189	Marianne Gibbons - 1A	Personal 1 of 2	05/12/04	0.015	--	NA
M342190	Marianne Gibbons - 1B	Personal, 2 of 2	05/12/04	0.014	0.008 <sup>2</sup>	NA
M342250	Mary O. Zibilich - 2A	Personal, 1 of 2	05/12/04	<0.008	--	NA
M342460	Mary O. Zibilich - 2B	Personal, 2 of 2	05/12/04	<0.013	<0.006 <sup>2</sup>	NA
M342263	Marianne Gibbons - STEL	Excursion	05/12/04	<0.045	NA	<0.045
M342255	Mary O. Zibilich - STEL	Excursion	05/12/04	<0.045	NA	<0.045

Notes

f/cc - fibers per cubic centimeter

TWA - Time weighted average

NA - Not applicable

Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) are 0.1 f/cc for an 8-hour TWA and 1.0 f/cc for a 30-minute excursion.

Air analysis for asbestos using PCM NIOSH 7400A - Phase Contrast Microscopy (PCM) National Institute for Occupational Safety and Health (NIOSH) analytical method 7400A.

<sup>1</sup> Filter was overloaded with particles, therefore no fiber count was possible.

<sup>2</sup> Sum of total sample exposure divided by 8-hours [(S1\*T1)+(S2\*T2).../480 minutes].

## **PHOTOGRAPHS**





Photograph 1 Baker Beach Disturbed Area 2A



Photograph 2 Serpentine Soils at Presidio Golf Course





Photograph 3 Exposure Assessment at Baker Beach Disturbed Area 2A



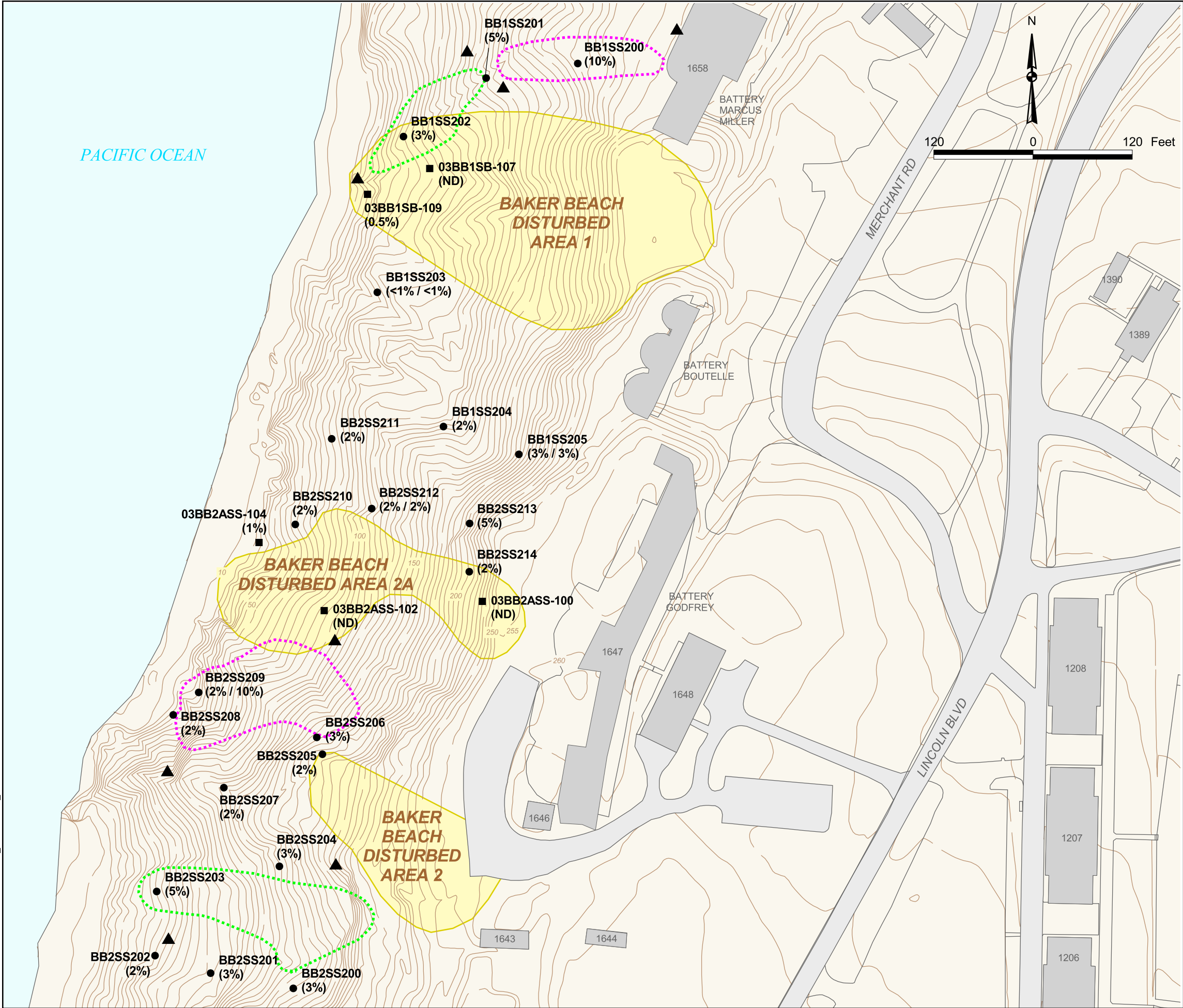
Photograph 4 Exposure Assessment at Baker Beach Disturbed Area 2

## FIGURES









**LEGEND**

- **BB1SS203** (<1% / <1%) 2004 Asbestos Soil Sampling Location (percent chrysotile / duplicate sample)
- **03BB2ASS-104** (1%) 2003 Asbestos Soil Sample Location (percent chrysotile)
- (ND) Not Detected
- ▲ Initial Perimeter Air Sampling Location
- ..... Approximate Limits of Exposure Assessment Work Area (Morning)
- ..... Approximate Limits of Exposure Assessment Work Area (Afternoon)
- Topographic Contour (Contour Interval : 5 ft)
- Presidio Base map
- Approximate Lateral Extent of Landfill
- Building

Notes:  
2003 Asbestos Results from Draft Interim Data Report, Baker Beach Disturbed Areas 1, 1A, 2 and 2A, MACTEC, 19 November 2003.

Landfill outlines are approximate.

Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datum (topography): North American Vertical Datum, NAVD88

**BAKER BEACH DISTURBED AREAS 1 AND 2 ASBESTOS SAMPLING LOCATIONS**

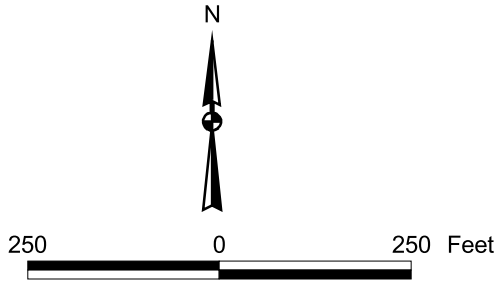
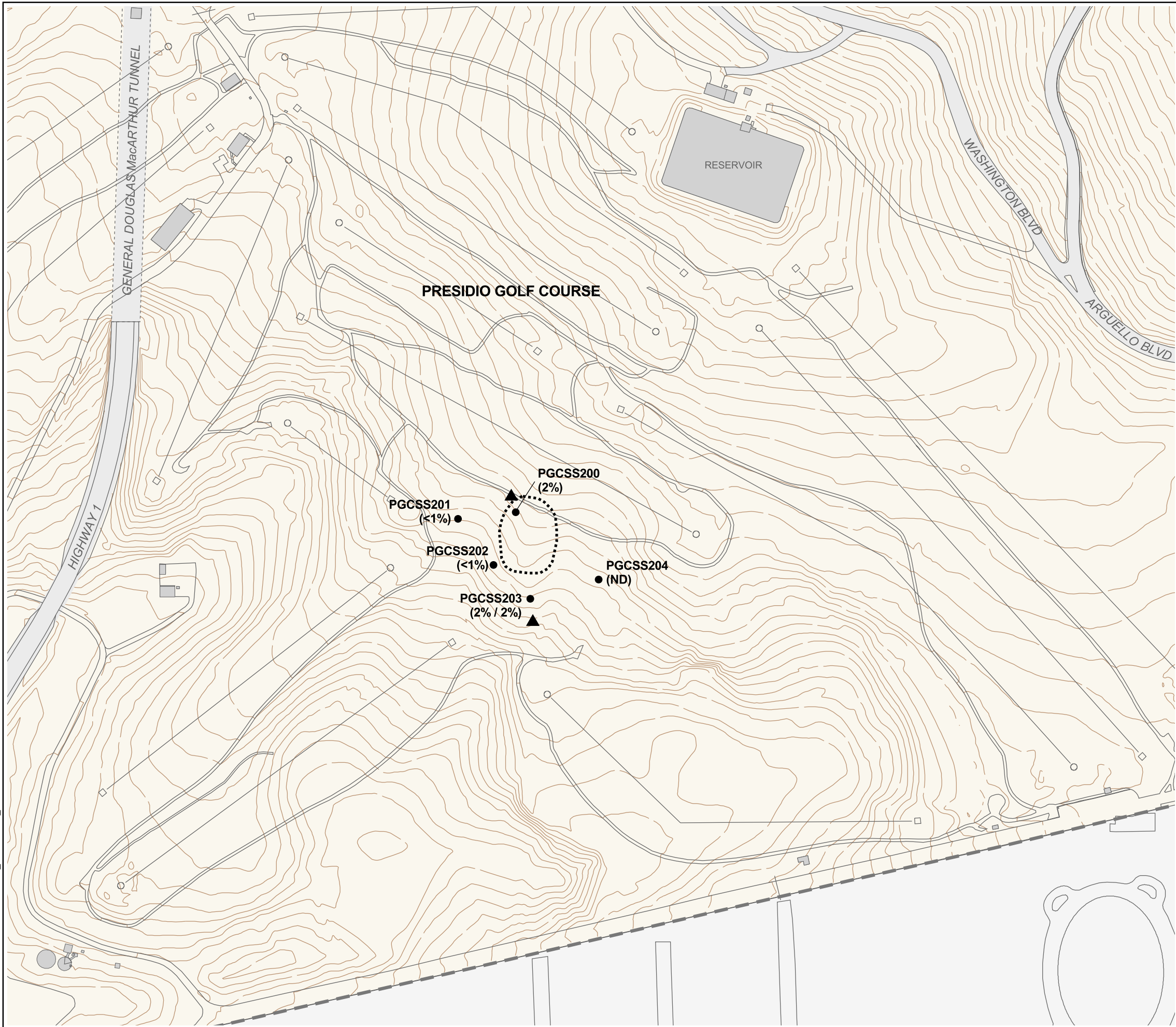
**Treadwell&Rollo**



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March 2005

**FIGURE 2**





LEGEND

- **PGCSS200 (2%)** 2004 Asbestos Soil Sampling Location (percent chrysotile / duplicate sample)
- (ND) Not Detected
- ▲ Initial Perimeter Air Sampling Location
- ..... Approximate Limits of Exposure Assessment Work Area
- — — Presidio Boundary
- Presidio Basemap
- Topographic Contours (Contour Interval : 5 ft)
- Building

Notes:  
Base map provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane  
Coordinates, Zone 3, feet

Vertical Datum (topography): North American Vertical  
Datum, NAVD88

PRESIDIO GOLF COURSE  
ASBESTOS SAMPLING LOCATIONS

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FIGURE 3